STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO: ML-22792	6. SURFACE: State
7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
8. UNIT or CA AGREEMENT NAME: UNIT #891008900A	
9. WELL NAME and NUMBER: NBU 1021-19E	
10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E	
12. COUNTY: UINTAH	13. STATE: UTAH

1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐

B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☐ MULTIPLE ZONE ☑

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE L.P.

3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078 PHONE NUMBER: (435) 781-7024

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2146'FNL, 879'FWL LOT 2 6195888X 39.934613
AT PROPOSED PRODUCING ZONE: 4421228Y -109.600404

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 15.7 MILES SOUTH OF OURAY, UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
879'	643.5	40.00
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)	**19. PROPOSED DEPTH:**	**20. BOND DESCRIPTION:**
REFER TO TOPO C	9,620	RLB0005237
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):	**22. APPROXIMATE DATE WORK WILL START:**	**23. ESTIMATED DURATION:**
5192'GL		

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4"	9 5/8 H-40 32.3#	2,000	265 SX CLASS G 1.18 YIELD 15.6 PPG
7 7/8"	4 1/2 I-80 11.6#	9,620	2030 SX 50/50 POZ 1.31 YIELD 14.3 PPG

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE Sheila Upchego DATE 1/23/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39006

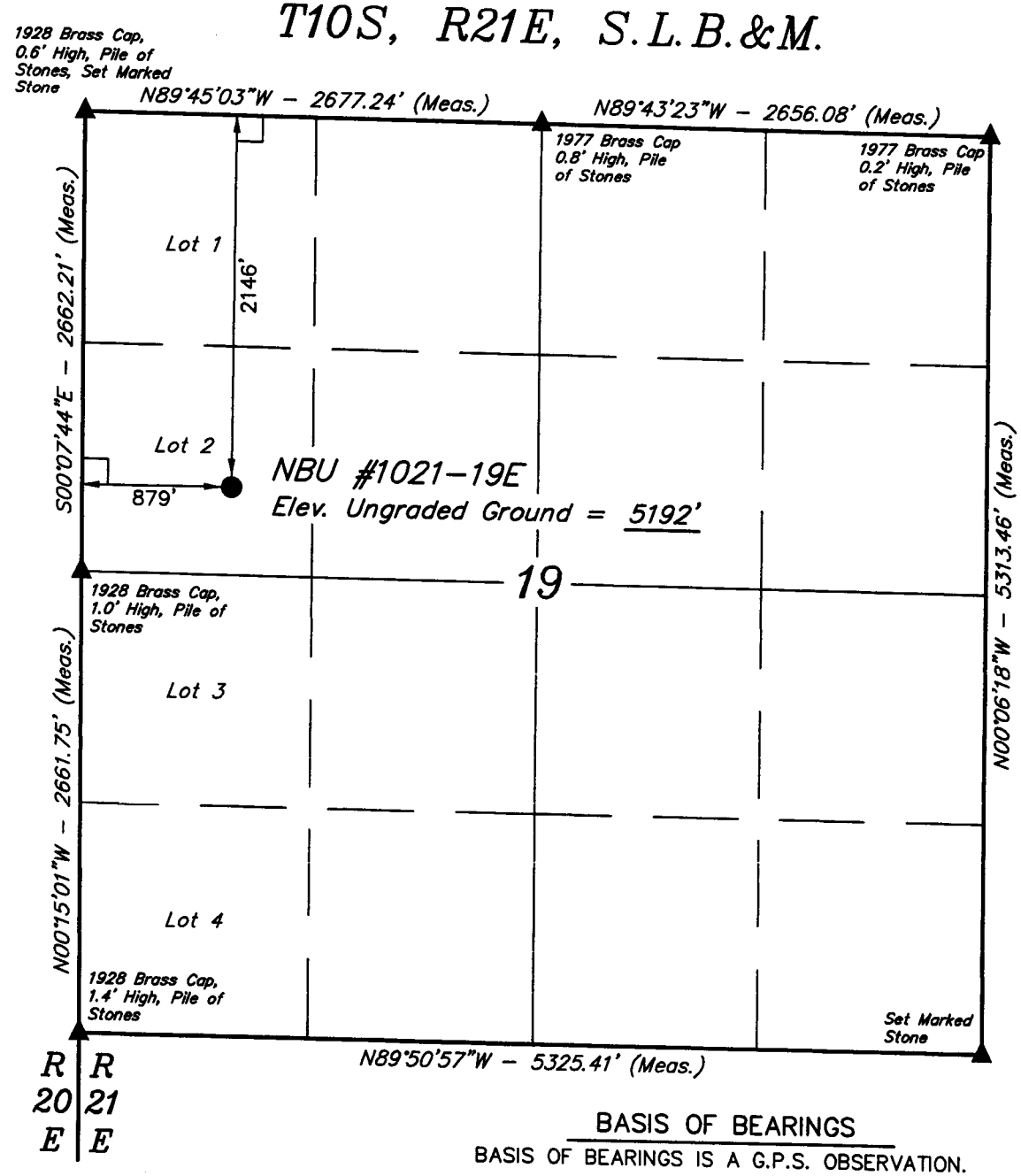
Approved by the
Utah Division of
Oil, Gas and Mining
APPROVAL:

Date: 02-28-07
By:

RECEIVED
FEB 02 2007
DIV. OF OIL, GAS & MINING

(11/2001) (See Instructions on Reverse Side)

T10S, R21E, S.L.B.&M.



LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

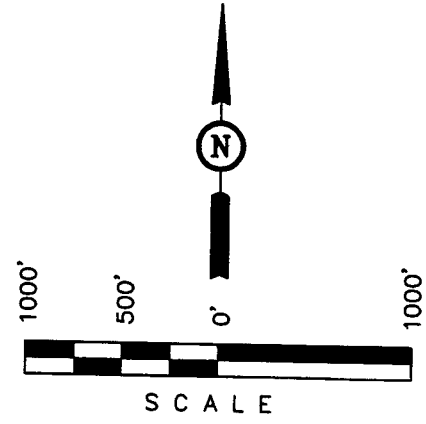
(NAD 83)
LATITUDE = 39°56'04.44" (39.934567)
LONGITUDE = 109°36'03.96" (109.601100)
(NAD 27)
LATITUDE = 39°56'04.57" (39.934603)
LONGITUDE = 109°36'01.48" (109.600411)

Kerr McGee Oil & Gas Onshore LP

Well location, NBU #1021-19E, located as shown in the SW 1/4 NW 1/4 of Section 19, T10S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 10-29-06	DATE DRAWN: 11-08-06
PARTY: G.O. B.H. S.L.	REFERENCES: G.L.O. PLAT	
WEATHER: COOL	FILE: Kerr McGee Oil & Gas Onshore LP	

NBU 1021-19E
SW/NW, LOT 2, SEC. 19, T10S, R21E
UINTAH COUNTY, UTAH
ML-22792

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

Formation	Depth
Uinta	0- Surface
Green River	1156'
Top of Birds Nest Water	1392'
Mahogany	1954'
Wasatch	4415'
Mesaverde	7431'
MVU2	8425'
MVL1	8976'
TD	9620'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

Substance	Formation	Depth
	Green River	1156'
Water	Top of Birds Nest Water	1392'
	Mahogany	1954'
Gas	Wasatch	4415'
Gas	Mesaverde	7431'
Gas	MVU2	8425'
Gas	MVL1	8976'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9620' TD, approximately equals 5964 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3848 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

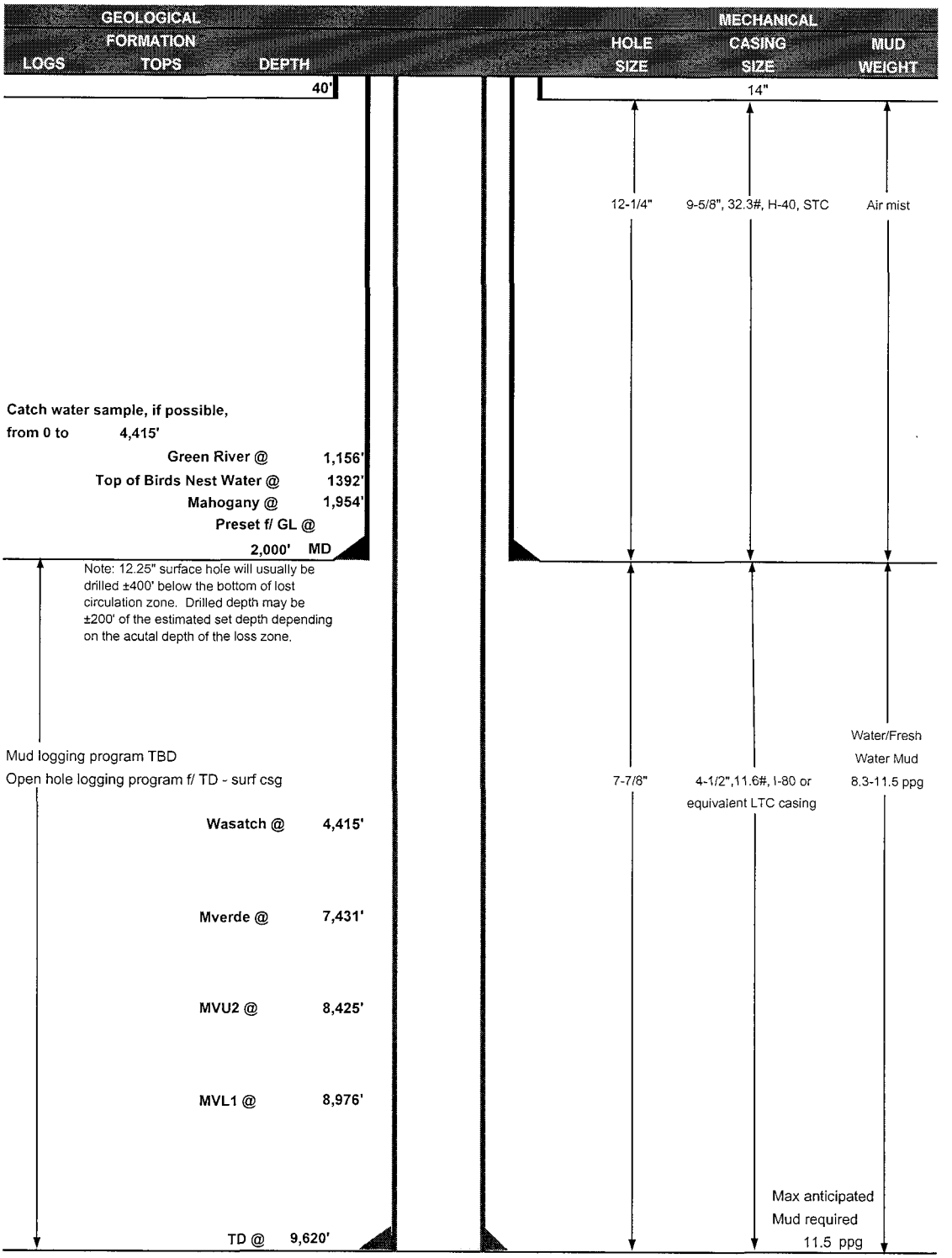
10. **Other Information:**

Please refer to the attached Drilling Program.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	January 23, 2007		
WELL NAME	**NBU 1021-19E**			TD	9,620' MD/TVD		
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION	5,192' GL KB 5,207'
SURFACE LOCATION	SW/NW LOT 2, SEC. 19, R10S, R21E 2146'FNL, 879'FWL					BHL	Straight Hole
	Latitude: 39.934567 Longitude: 109.601100						
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (SURF & MINERALS), BLM, Tri-County Health Dept.						



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						2270	1370	254000
SURFACE	9-5/8"	0 to 2000	32.30	H-40	STC	0.62*******	1.46	4.49
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9620	11.60	I-80	LTC	2.14	1.10	2.06

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3636 psi

******** Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			***NOTE: If well will circulate water to surface, option 2 will be utilized***				
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,910'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	430	60%	11.00	3.38
	TAIL	5,710'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1600	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

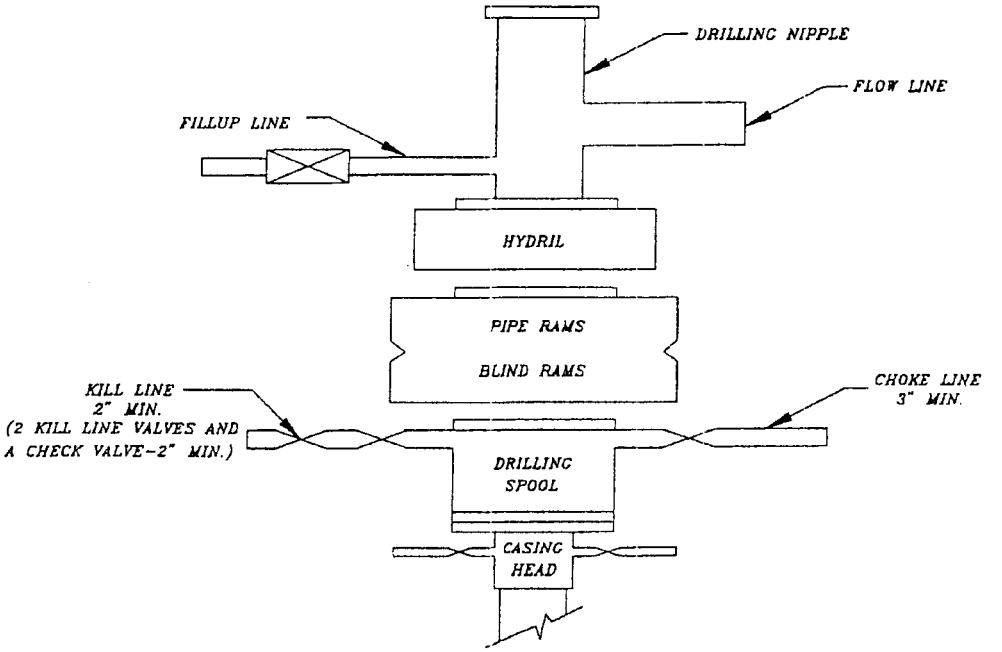
DRILLING ENGINEER: _____ **DATE:** _____

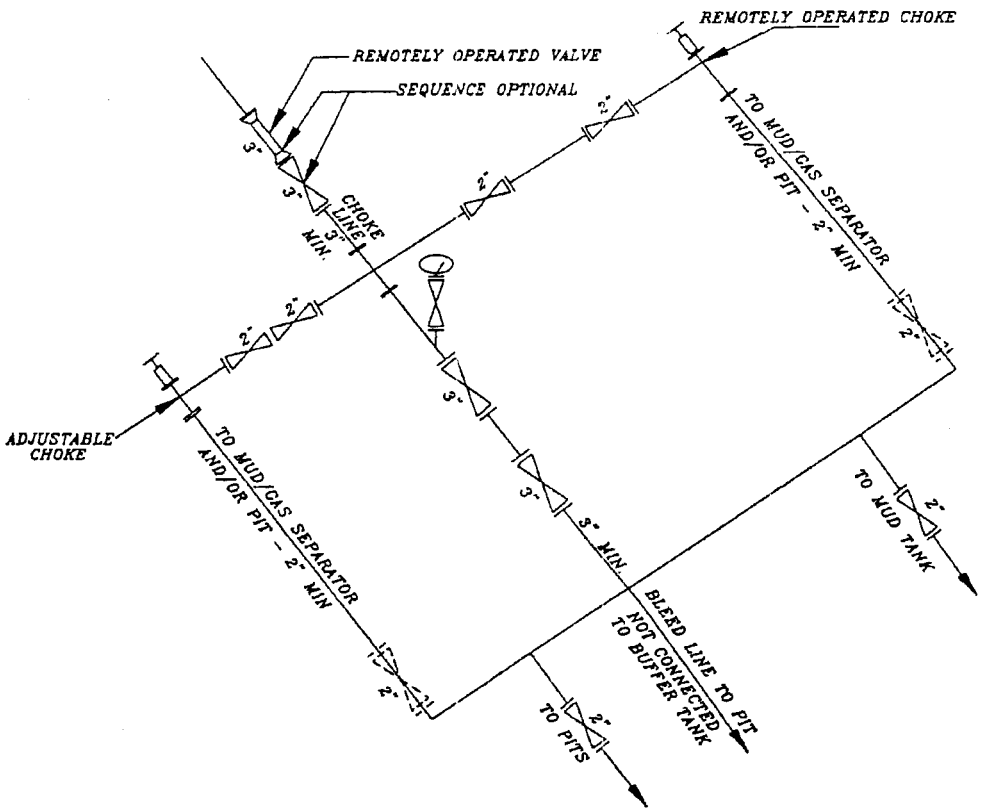
Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

5M BOP STACK and CHOKE MANIFOLD SYSTEM





NBU 1021-19E
SW/NW LOT 2, SEC. 19, T10S, R21E
Uintah County, UT
ML-22792

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Approximately 0.2 +/- miles of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

Approximately 0.2 +/- miles of re-habed road needs upgraded. Refer to Topo Map B.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately 3450' +/- of 4" pipeline is proposed from the proposed pipeline for the 1021-19C to the proposed location Refer to Topo Map D.

Approximately 1415' +/- of 4" pipeline is proposed from an existing pipeline to the proposed location. Please refer to Topo Map D.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be

three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Sheila Upchego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East.
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Sheila Upchego

1/23/2007
Date

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E
SECTION 19 T10S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 11.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND A RE-HABED ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.7 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E

LOCATED IN UINTAH COUNTY, UTAH
SECTION 19, T10S, R21E, S.L.B.&M.

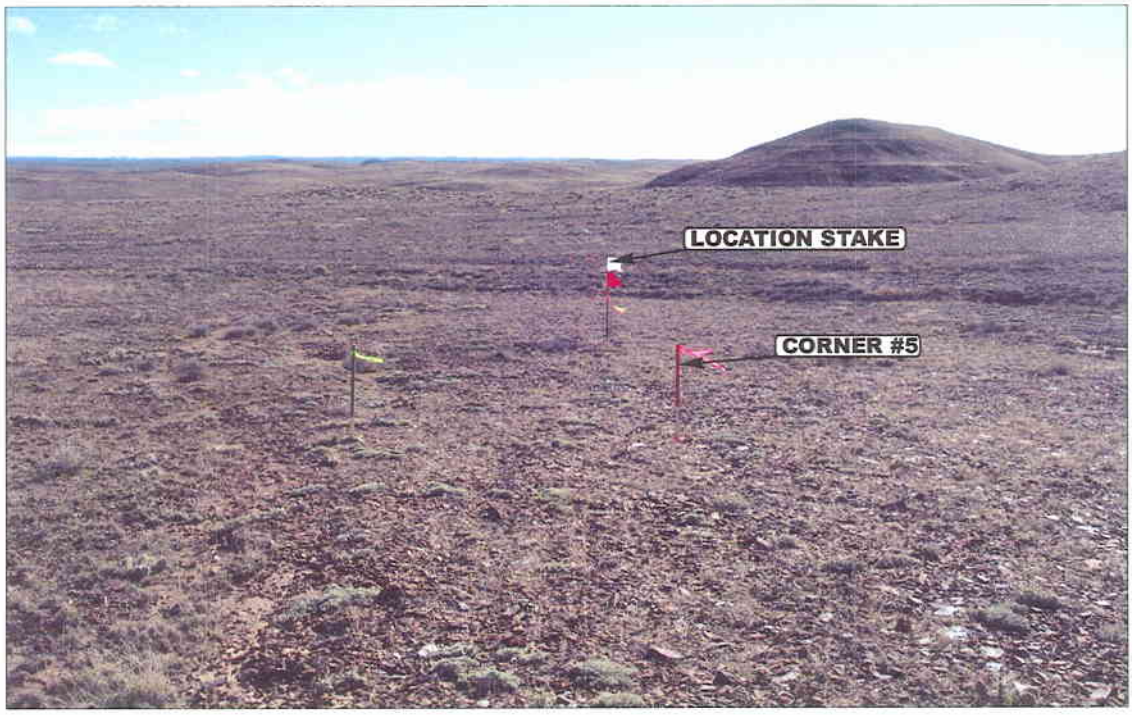
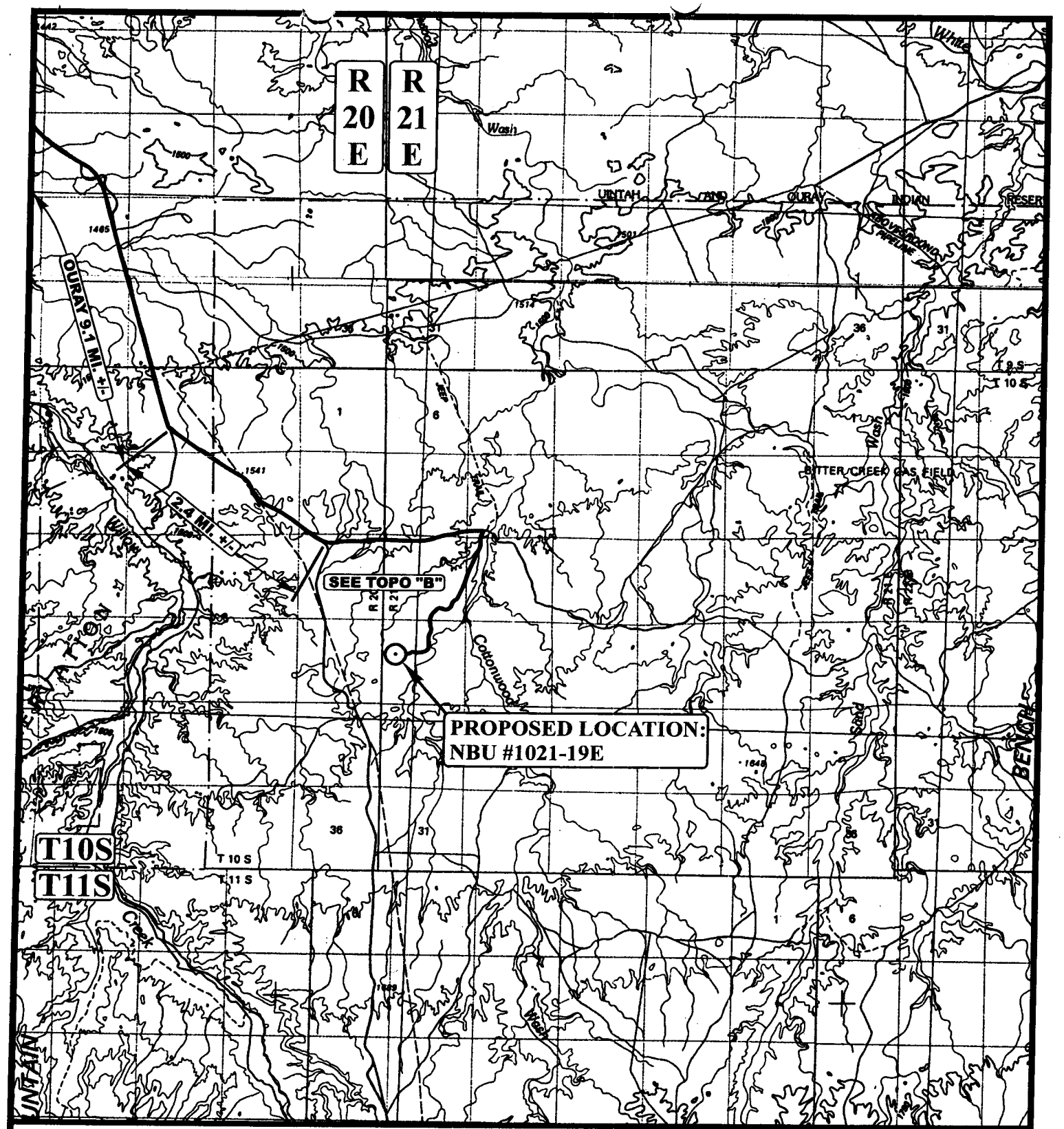


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE **CAMERA ANGLE: SOUTHERLY**

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS **CAMERA ANGLE: WESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	11 MONTH	03 DAY	06 YEAR	PHOTO
TAKEN BY: G.O.	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

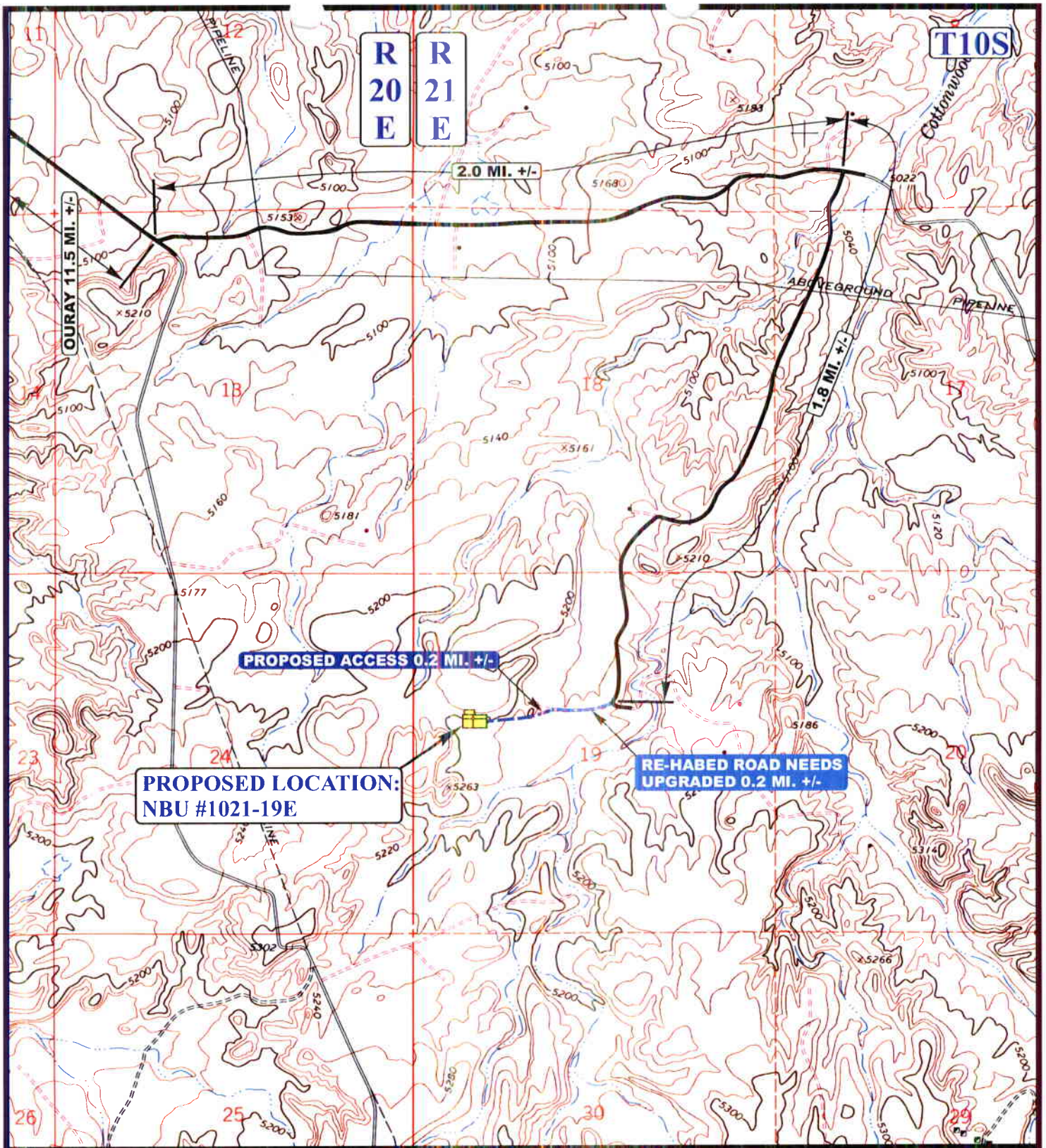
N

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E
SECTION 19, T10S, R21E, S.L.B.&M.
2146' FNL 879' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	03 DAY	06 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

RE-HABED ROAD NEEDS UPGRADED

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E

SECTION 19, T10S, R21E, S.L.B.&M.

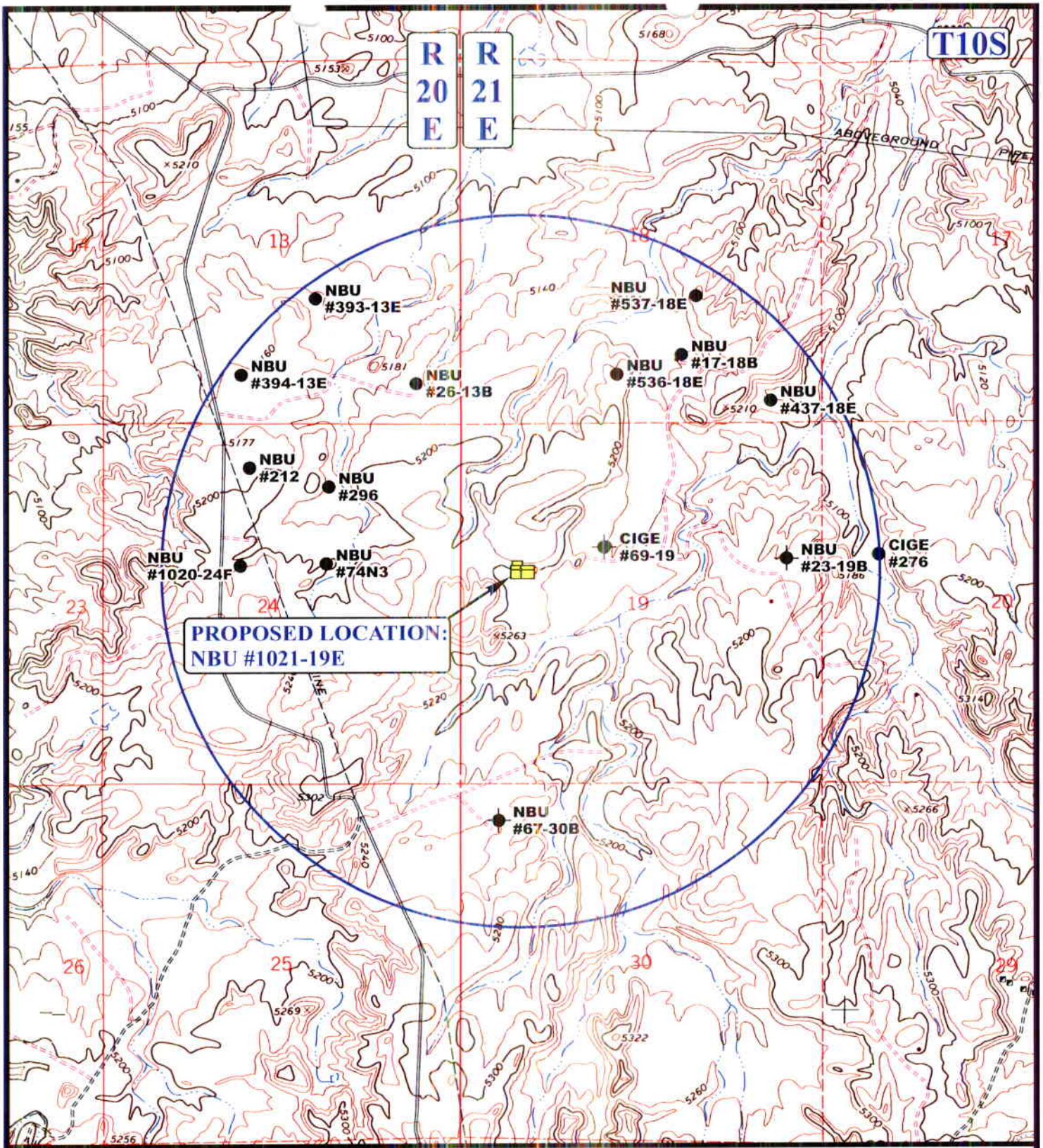
2146' FNL 879' FWL

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	03 DAY	06 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

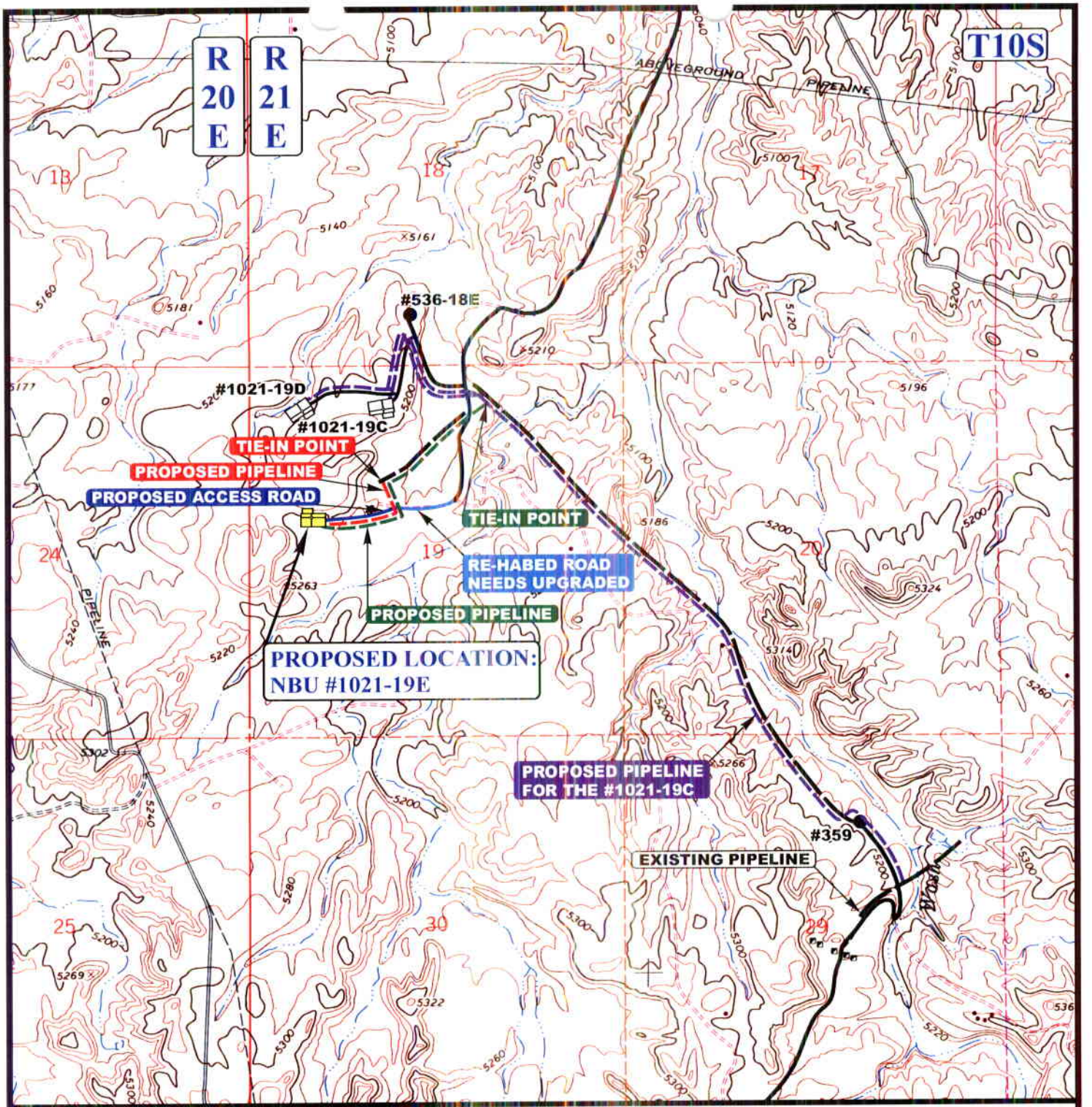
N

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E
SECTION 19, T10S, R21E, S.L.B.&M.
2146' FNL 879' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	03 DAY	06 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00	C TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 3,450' +/-

APPROXIMATE TOTAL PIPELINE DISTANCE = 1,415' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE
PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E
SECTION 19, T10S, R21E, S.L.B.&M.
2146' FNL 879' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	03 DAY	06 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH
SECTION 19, T10S, R21E, S.L.B.&M.

PHOTO: VIEW FROM TIE-IN POINT **CAMERA ANGLE: WESTERLY**

PHOTO: VIEW OF PIPELINE ALIGNMENT **CAMERA ANGLE: WESTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	11 MONTH	03 DAY	06 YEAR	PHOTO
TAKEN BY: G.O.	DRAWN BY: C.P.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

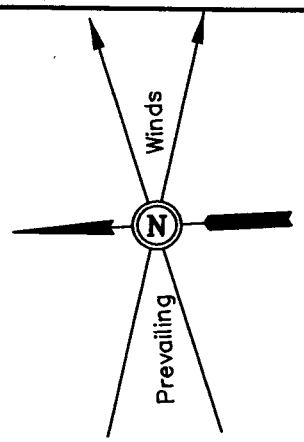
FIGURE #1

LOCATION LAYOUT FOR

NBU #1021-19E

SECTION 19, T10S, R21E, S.L.B.&M.

2146' FNL 879' FWL



SCALE: 1" = 50'
DATE: 11-08-06
Drawn By: S.L.

REGISTERED LAND SURVEYOR
No. 161318
ROBERT L. KAY
STATE OF UTAH

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5192.4'

FINISHED GRADE ELEV. AT LOC. STAKE = 5191.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Kerr–McGee Oil & Gas Onshore LP

FIGURE #2

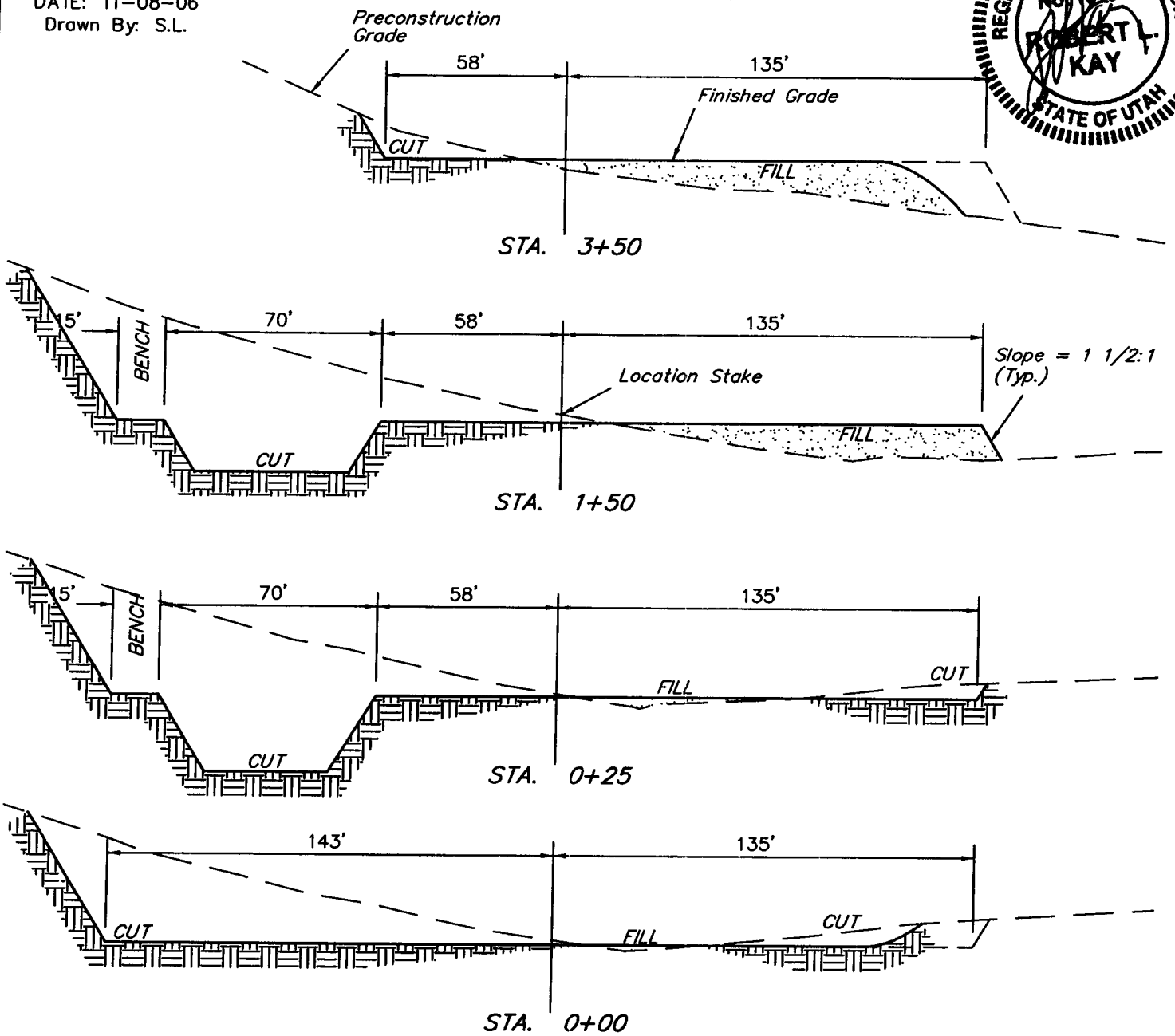
TYPICAL CROSS SECTIONS FOR

NBU #1021–19E
SECTION 19, T10S, R21E, S.L.B.&M.
2146' FNL 879' FWL

1" = 20'
X–Section Scale
1" = 50'

DATE: 11–08–06
Drawn By: S.L.

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH



NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,870 Cu. Yds.
Remaining Location = 12,050 Cu. Yds.

TOTAL CUT = 13,440 CU.YDS.
FILL = 5,680 CU.YDS.

EXCESS MATERIAL = 7,760 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,260 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 4,500 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789–1017

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/02/2007

API NO. ASSIGNED: 43-047-39006

WELL NAME: NBU 1021-19E

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

SWNW 19 100S 210E

SURFACE: 2146 FNL 0879 FWL

BOTTOM: 2146 FNL 0879 FWL

COUNTY: UINTAH

LATITUDE: 39.93461 LONGITUDE: -109.6004

UTM SURF EASTINGS: 619588 NORTHINGS: 4421228

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	2/27/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-22792

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: NATURAL BUTTES

___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

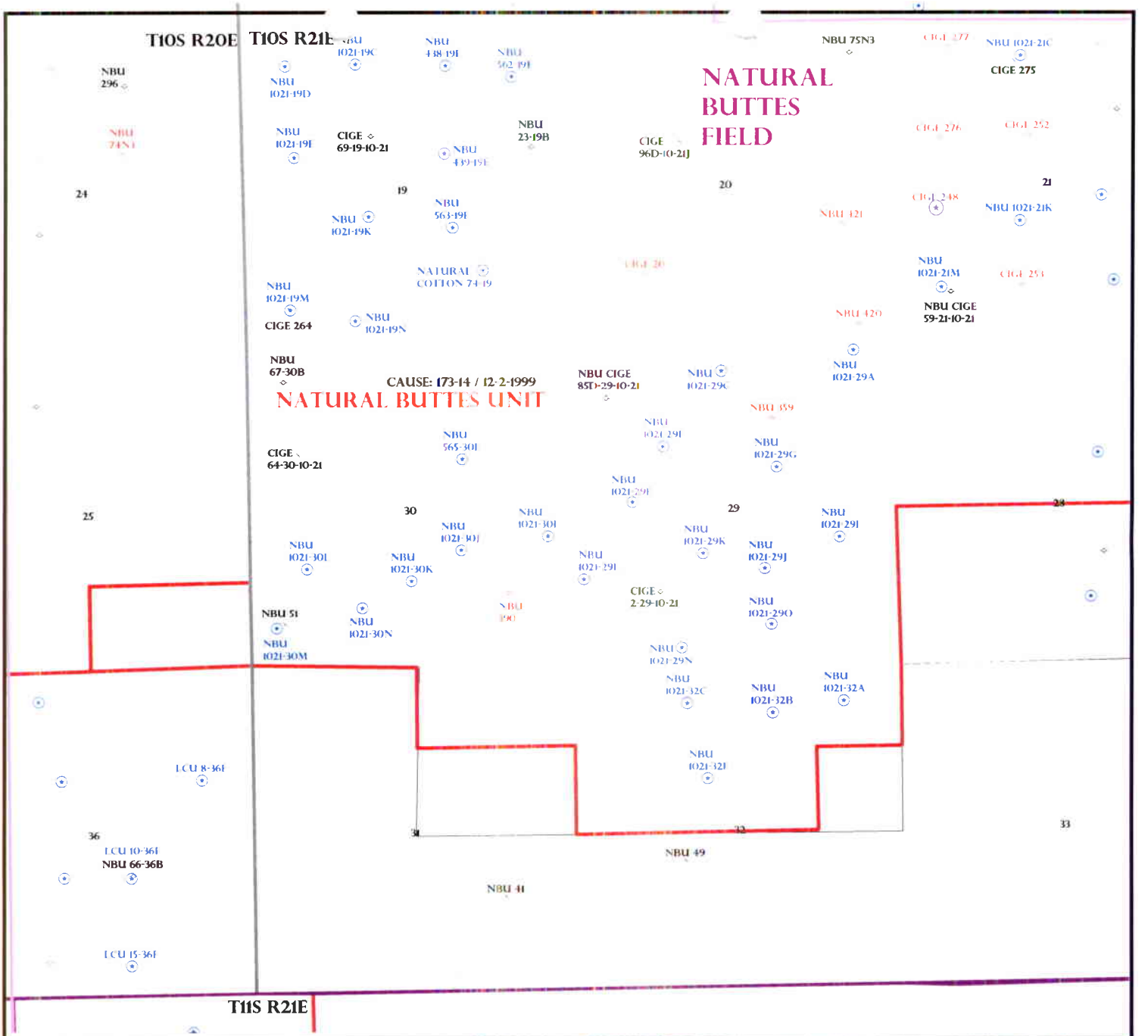
___ R649-3-3. Exception

✓ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' fr Unit Bdry & 1320' fr other wells

___ R649-3-11. Directional Drill

COMMENTS: Needs Presite (02-13-07)

STIPULATIONS: 1- STATEMENT OF BASIS
2- OIL SHALE
3- Surface Csg Cmt Stip



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 19,29,30,32 T.10S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA MASON
DATE: 7-FEBRUARY-2007

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
232	43-047-39006-00-00		GW	S	No

Operator KERR-MCGEE OIL & GAS ONSHORE, LP **Surface Owner-APD**
Well Name NBU 1021-19E **Unit**
Field UNDESIGNATED **Type of Work**
Location SWNW 19 10S 21E S 0 F L 0 F L GPS Coord (UTM) 619588E 4421228N

Geologic Statement of Basis

Kerr McGee proposes to set 2,000' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 5,200'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 19. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill — 2/21/2007
APD Evaluator — **Date / Time**

Surface Statement of Basis

The general area is within the Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area.

This location is approximately 16 miles southeast of Ouray, Ut. and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within 0.4 miles of the site, which will require up-grading and new construction.

The north end of the proposed location will be cut into a gentle to moderately sloping ridge which runs to the north and extends into a gentle sloping flat. A swale enters the location from the northwest and is planned to be diverted south around the pad.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location. The selected location appears to be the best site for drilling and operating a well in the immediate area.

Floyd Bartlett — 2/13/2007
Onsite Evaluator — **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name NBU 1021-19E
API Number 43-047-39006-0 **APD No** 232 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 SWNW **Sec** 19 **Tw** 10S **Rng** 21E 0 F L 0 F L
GPS Coord (UTM) 619586 4421229 **Surface Owner**

Participants

Floyd Bartlett and David Hackford (DOGM), Jim Davis (SITLA), Carroll Estes, Tony Kznick, and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering and Land Surveying), and Ben Williams (UDWR)

Regional/Local Setting & Topography

The general area is within the Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area.

This location is approximately 16 miles southeast of Ouray, Ut. and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within 0.4 miles of the site, which will require up-grading and new construction.

The north end of the proposed location will be cut into a gentle to moderately sloping ridge which runs to the north and extends into a gentle sloping flat. A swale enters the location from the northwest and is planned to be diverted south around the pad.

Surface Use Plan

Current Surface Use
Grazing
Recreational
Wildlfe Habitat

New Road

Miles	Well Pad		Src Const Material	Surface Formation
0.4	**Width** 278	**Length** 350	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Snow covered the vegetation on the area. Identifiable vegetation consisted of Gardner saltbush, shadscale, greasewood, and black sage. Vegetation is sparse.

Antelope, cattle, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Moderately deep gravely sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required Y

Around the south and west side of the pad.

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	Final Score	25 1 **Sensitivity Level**

Characteristics / Requirements

The proposed reserve pit is 70' x 150' x 10' deep located in a cut on the north west corner of the location. A 20 mil liner with a felt sub-liner is planned by Kerr McGee.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 20 **Pit Underlayment Required?** Y

Other Observations / Comments

Ben Williams representing the UDWR stated the area is classified as yearlong critical habitat for antelope. He stated that the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Jim Davis of SITLA and Carroll Estes of Kerr McGee a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when revegetating the location.

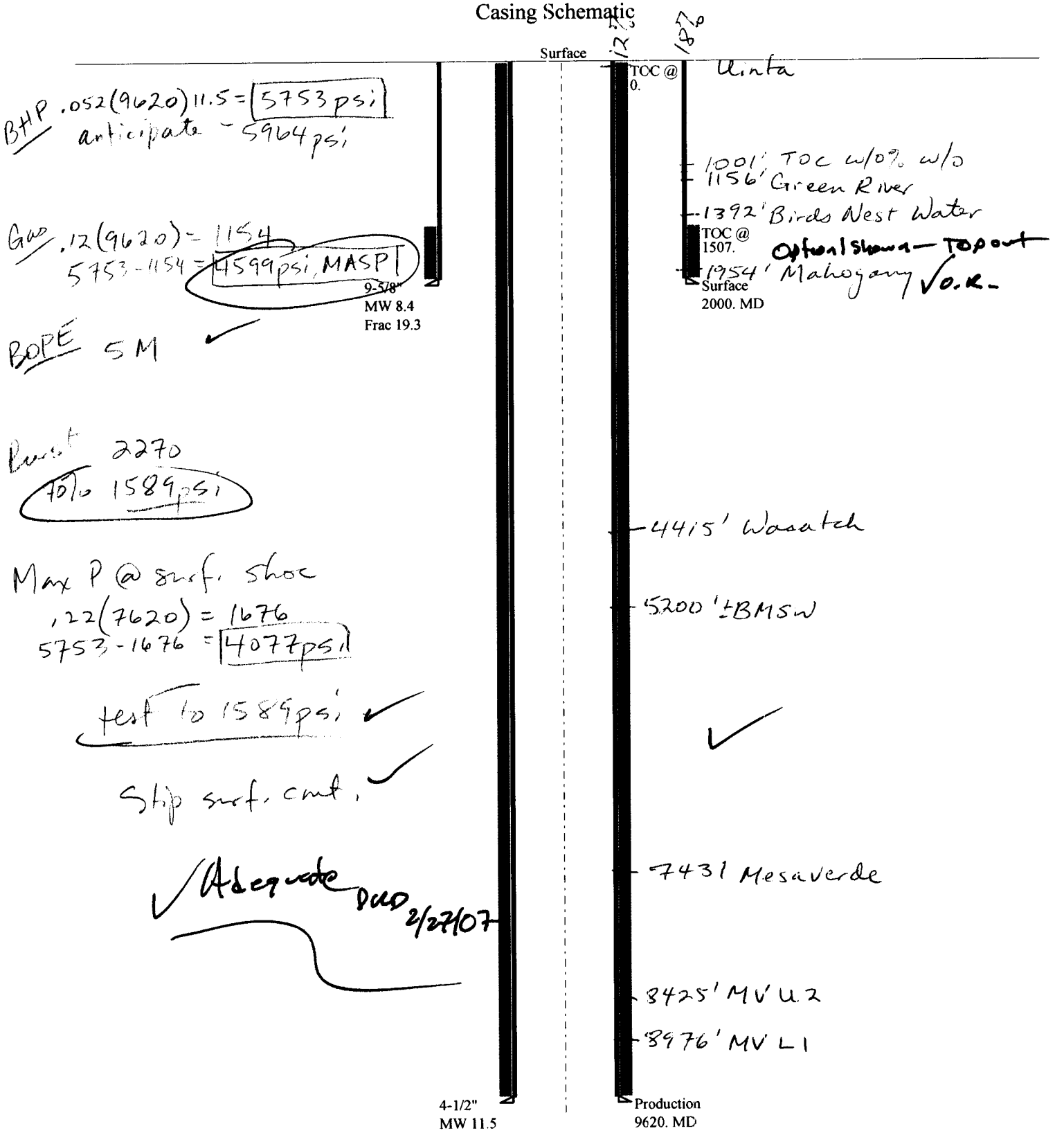
The area was covered with snow. ATV's were used to access the site.

Floyd Bartlett — **Evaluator**

2/13/2007 — **Date / Time**

2007-02 Kerr McGee NBU ...021-19E

Casing Schematic



BHP .052(9620)11.5 = 5753 psi
anticipate ~ 5964 psi

Gas .12(9620) = 1154
5753 - 1154 = 4599 psi, MASP

BOPE 5M ✓

Burst 2270
70% 1589 psi

Max P @ surf. shoe
.22(7620) = 1676
5753 - 1676 = 4077 psi

test to 1589 psi ✓

Stip surf. cmt. ✓

✓ Adequate DKD 2/27/07

Well name:	**2007-02 Kerr McGee NBU 1021-19E**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Surface
Project ID:	43-047-39006
Location:	Uintah County, Utah

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,760 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,000 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,753 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 103 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 1,507 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 9,620 ft
Next mud weight: 11.500 ppg
Next setting BHP: 5,747 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,000 ft
Injection pressure: 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	2000	9.625	32.30	H-40	ST&C	2000	2000	8.876	883.7

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	873	1370	1.570	2000	2270	1.14	57	254	4.49 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: February 22,2007
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**2007-02 Kerr McGee NBU 1021-19E**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Production
Project ID:	43-047-39006
Location:	Uintah County, Utah

Design parameters:

Collapse
Mud weight: 11.500 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 3,631 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,747 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 7,966 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 210 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	9620	4.5	11.60	I-80	LT&C	9620	9620	3.875	839.5

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5747	6360	1.107	5747	7780	1.35	92	212	2.29 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: February 22,2007
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9620 ft, a mud weight of 11.5 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

February 7, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Natural Buttes Unit Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION

(Proposed PZ Wasatch/MesaVerde)

43-047-39004 NBU 1021-19C Sec. 19 T. 10S R. 21E 0620 FNL 1904 FWL
43-047-39005 NBU 1021-19D Sec. 19 T. 10S R. 21E 0637 FNL 0755 FWL
43-047-39006 NBU 1021-19E Sec. 19 T. 10S R. 21E 2146 FNL 0879 FWL
43-047-39007 NBU 1021-19K Sec. 19 T. 10S R. 21E 2181 FSL 2092 FWL
43-047-39008 NBU 1021-19N Sec. 19 T. 10S R. 21E 0462 FSL 1845 FWL
43-047-39009 NBU 1021-29L Sec. 29 T. 10S R. 21E 1398 FSL 0190 FWL
43-047-39010 NBU 1021-29O Sec. 29 T. 10S R. 21E 0615 FSL 2115 FEL
43-047-39011 NBU 1021-29N Sec. 29 T. 10S R. 21E 0250 FSL 1764 FWL
43-047-39012 NBU 1021-29J Sec. 29 T. 10S R. 21E 1532 FSL 2192 FEL
43-047-39013 NBU 1021-29K Sec. 29 T. 10S R. 21E 1804 FSL 2143 FWL
43-047-39014 NBU 1021-29I Sec. 29 T. 10S R. 21E 2060 FSL 0962 FEL
43-047-39015 NBU 1021-29G Sec. 29 T. 10S R. 21E 2090 FNL 1960 FEL
43-047-39016 NBU 1021-29F Sec. 29 T. 10S R. 21E 1718 FNL 1529 FWL
43-047-39017 NBU 1021-29E Sec. 29 T. 10S R. 21E 2635 FNL 1010 FWL
43-047-39018 NBU 1021-29C Sec. 29 T. 10S R. 21E 0476 FNL 2501 FWL
43-047-39019 NBU 1021-29A Sec. 29 T. 10S R. 21E 0170 FNL 0627 FEL
43-047-39020 NBU 1021-30I Sec. 30 T. 10S R. 21E 2131 FSL 0387 FEL
43-047-39021 NBU 1021-30J Sec. 30 T. 10S R. 21E 1901 FSL 1827 FEL
43-047-39022 NBU 1021-30K Sec. 30 T. 10S R. 21E 1398 FSL 2686 FWL
43-047-39023 NBU 1021-30L Sec. 30 T. 10S R. 21E 1602 FSL 0980 FWL
43-047-39024 NBU 1021-30M Sec. 30 T. 10S R. 21E 0612 FSL 0462 FWL

43-047-39025 NBU 1021-30N Sec. 30 T. 10S R. 21E 0942 FSL 1876 FWL
43-047-39026 NBU 1021-32A Sec. 32 T. 10S R. 21E 0646 FNL 0955 FEL
43-047-39027 NBU 1021-32B Sec. 32 T. 10S R. 21E 0837 FNL 2117 FEL
43-047-39028 NBU 1021-32C Sec. 32 T. 10S R. 21E 0664 FNL 1840 FWL
43-047-39029 NBU 1021-32F Sec. 32 T. 10S R. 21E 1909 FNL 2165 FWL
43-047-39001 NBU 1021-01G Sec. 01 T. 10S R. 21E 2660 FSL 1765 FEL
43-047-39002 NBU 1021-01O Sec. 01 T. 10S R. 21E 0245 FSL 2619 FEL
43-047-39003 NBU 1021-01P Sec. 01 T. 10S R. 21E 0888 FSL 1309 FEL
43-047-39030 NBU 1022-18A Sec. 18 T. 10S R. 22E 1007 FNL 0512 FEL
43-047-39031 NBU 1022-24I Sec. 24 T. 10S R. 22E 2045 FSL 1166 FEL
43-047-39032 NBU 1022-25B Sec. 25 T. 10S R. 22E 0403 FNL 1971 FEL
43-047-39033 NBU 1022-25H Sec. 25 T. 10S R. 22E 2604 FNL 0825 FEL

Our records indicate the NBU 1022-25H is closer than 460 feet from the Natural Buttes Unit boundary (approximately 36 feet).

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:2-7-07

From: Ed Bonner
To: Mason, Diana
Date: 2/27/2007 8:48 AM
Subject: Well Clearance

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Kerr McGee Oil & Gas Onshore LP
- NBU 1021-19C (API 43 047 39004)
- NBU 1021-19D (API 43 047 39005)
- NBU 1021-19E (API 43 047 39006)
- NBU 1021-19K (API 43 047 39007)
- NBU 1021-19N (API 43 047 39008)
- NBU 1022-18A (API 43 047 39030)

If you have any questions regarding this matter please give me a call.

State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

February 28, 2007

Kerr-McGee Oil & Gas Onshore LP
1368 S 1200 E
Vernal, UT 84078

Re: Natural Buttes Unit 1021-19E Well, 2146' FNL, 879' FWL, SW NW, Sec. 19, T. 10 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39006.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor (via e-mail)
SITLA
Bureau of Land Management, Vernal District Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

Operator: Kerr-McGee Oil & Gas Onshore LP

Well Name & Number Natural Buttes Unit 1021-19E

API Number: 43-047-39006

Lease: ML-22792

Location: SW NW **Sec.** 19 **T.** 10 South **R.** 21 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

   - 24 hours prior to cementing or testing casing – contact Dan Jarvis
   - 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
   - 24 hours prior to spudding the well – contact Carol Daniels
   - Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
   - Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

   The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

   - Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
   - Any changes to the approved drilling plan – contact Dustin Doucet

   The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

   - Dan Jarvis at: (801) 538-5338 office
     (801) 733-0983 home
   - Carol Daniels at: (801) 538-5284 office
   - Dustin Doucet at: (801) 538-5281 office
     (801) 733-0983 home

3. **Reporting Requirements**

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

7. Surface casing shall be cemented to the surface.

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER _____

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2146'FNL, 879'FWL LOT 2

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO CHANGE THE ROUTE OF THE PIPELINE FROM APPROXIMATELY 3450' AND 1415' +/- OF 4" STEEL PIPELINE TO APPROXIMATELY 9500' +/- OF 4" STEEL PIPELINE THE PIPELINE WILL STAY ON STATE LANDS IN SEC. 18, & 17 T10S, R21E THE PIPELINE WILL TIE-IN TO AN EXISTING PIPELINE IN SECTION 17, T10S, R21E.

REFER TO THE ATTACHED REVISED TOPO MAP D FOR PIPELINE PLACEMENT.

COPY SENT TO OPERATOR
Date: 7-11-07
Initials: CHD

RECEIVED
JUL 02 2007
DIV. OF OIL, GAS & MINING

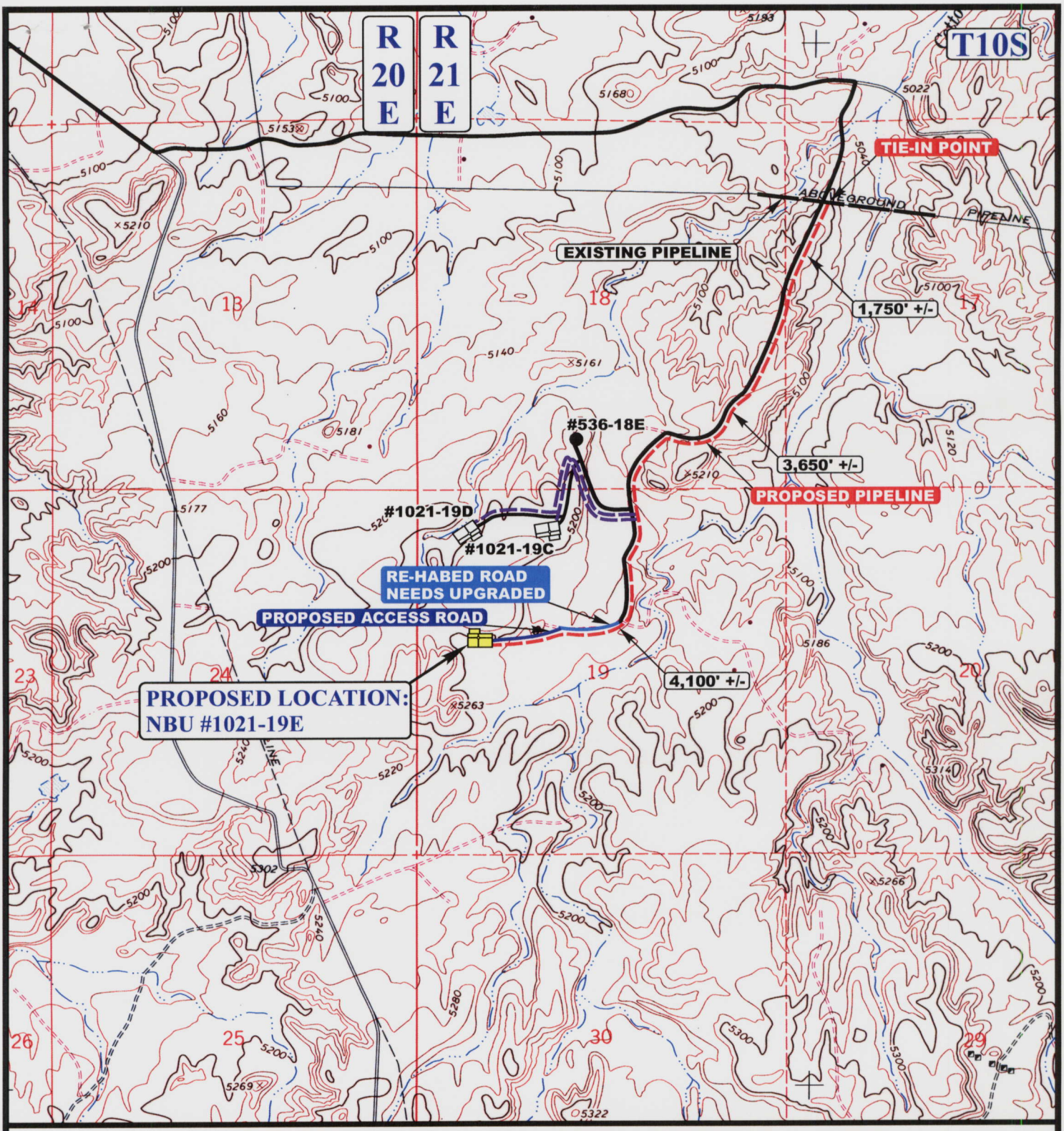
NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE _____ DATE 6/25/2007

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

(5/2000) (See Instructions on Reverse Side)



APPROXIMATE TOTAL 8" PIPELINE DISTANCE = 9,500' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19E
SECTION 19, T10S, R21E, S.L.B.&M.
2146' FNL 879' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	11 MONTH	03 DAY	06 YEAR	D TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 02-21-07		

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2146'FNL, 879'FWL (LOT 2)

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: APD EXTENSION
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION FOR A ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION. SO THAT THE DRILLING OPERATIONS MAY BE COMPLETED. THE ORIGINAL APD WAS APPROVED BY THE DIVISION OF OIL, GAS AND MINING ON FEBRUARY 28, 2007.

Approved by the Utah Division of Oil, Gas and Mining

Date: 02-25-08

By:

COPY SENT TO OPERATOR

Date: 2-26-2008

Initials: KS

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE DATE 2/6/2008

(This space for State use only)

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FEB 25 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

[redacted]

Application for Permit to Drill
Request for Permit Extension
Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 4304739006
Well Name: NBU 1021-19E
Location: SW/NW LOT 2, SEC. 19, T10S, R21E
Company Permit Issued to: KERR McGEE OIL AND GAS ONSHORE LP
Date Original Permit Issued: 2/28/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐No☑

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐No☑

Has the approved source of water for drilling changed? Yes☐No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐No☑

Is bonding still in place, which covers this proposed well? Yes☑No☐

Signature

2/6/2008
Date

Title: SENOIR LAND ADMIN SPECIALIST

Representing: KERR-McGEE OIL & GAS ONSHORE LP

RECEIVED
FEB 25 2008
DIV. OF OIL, GAS & MINING

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **KERR-McGEE OIL & GAS ONSHORE, LP**

Well Name: **NBU 1021-19E**

Api No: **43-047-39006** Lease Type: **STATE**

Section **19** Township **10S** Range **21E** County **UINTAH**

Drilling Contractor **PETE MARTIN DRLG** RIG # **BUCKET**

SPUDDED:

Date **06/22/08**

Time **8:00 AM**

How **DRY**

Drilling will Commence:

Reported by **LEW WELDON**

Telephone # **(435) 828-7035**

Date **06/24//08** **Signed** **CHD**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304737757	NBU 920-20L		NWSW	20	9S	20E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	6/23/2008			6/30/08	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 06/23/2008 AT 1100 HRS.

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739006	NBU 1021-19E		SWNW	19	10S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	6/22/2008			6/30/08	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 06/22/2008 AT 0800 HRS.

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO
Name (Please Print)
Signature
SENIOR LAND SPECIALIST 6/24/2008
Title Date

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JUN 24 2008
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2146'FNL, 879'FWL LOT 2

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: WELL SPUD
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 06/22/2008 AT 0800 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE Sheila Upchego DATE 6/24/2008

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JUN 26 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

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8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

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COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

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Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: SET SURFACE CSG
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETRO AIR RIG ON 06/23/2008. DRILLED 12 1/4" SURFACE HOLE TO 2060'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/175 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 27 +/- BBL CMT TO PIT. RAN 200' OF 1" PIPE. CMT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/75 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE _____ DATE 6/24/2008

(This space for State use only)

RECEIVED
JUN 30 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

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2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2146'FNL, 879'FWL LOT 2

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

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	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: FINAL DRILLING OPERATIONS
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2060' TO 9680' ON 08/05/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/440 SX PREM LITE II @11.5 PPG 2.82 YIELD. TAILED CMT W/1800 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/150 BBLS CLAY TREAT NO RETURNS DURING JOB UNTIL START OF DISPLACEMENT 29 BBLS CMT BACK BUMP PLUG @3677 PSI HELD. NIPPLE DOWN SET SLIPS W/70K CUT OFF CSG. CLEAN PITS.

RELEASED PIONEER RIG ON 08/07/2008 AT 1600 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE DATE 8/8/2008

(This space for State use only)

RECEIVED
AUG 11 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2146'FNL, 879'FWL LOT 2

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
_____	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: PRODUCTION START-UP
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 08/23/2008 AT 10:00 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE [signature] DATE 8/26/2008

(This space for State use only)

RECEIVED
SEP 09 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Wins No.: 95182 **NBU 1021-19E**

Well Operations Summary Long

Operator	FIELD NAME	SPUD DATE	GL	KB	ROUTE
KERR MCGEE OIL & GAS ONSHORE LP	NATURAL BUTTES	06/22/2008	5,192	5208	

API	STATE	COUNTY	DIVISION
4304739006	UTAH	UINTAH	ROCKIES

Long/Lat.: 39.93457 / 109.60110 **Q-Q/Sect/Town/Range:** SWNW / 19 / 10S / 21E **Footages:** 2,146.00' FNL 879.00' FWL

Wellbore: NBU 1021-19E

MTD	TVD	PBMD	PBTVD
9,680	9,676		

EVENT INFORMATION:
EVENT ACTIVITY: DRILLING
OBJECTIVE: DEVELOPMENT
OBJECTIVE 2: VERTICAL WELL
REASON: DRILL PROD HOLE
START DATE: 6/22/2008
END DATE:
DATE WELL STARTED PROD.:
Event End Status:
AFE NO.: 2011273

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
PIONEER 38 / 38	07/21/2008	07/21/2008	07/21/2008	07/23/2008	08/05/2008	08/07/2008	08/07/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
6/22/2008	SUPERVISOR: LEW WELDON						)0 MD: 56
	8:00 - 15:00	7.00	DRLCON	02		P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 0800 HR 6/22/08 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 38 BLM AND STATE NOTFIED OF SPUD
6/23/2008	SUPERVISOR: LEW WELDON						MD: 510
	17:00 - 0:00	7.00	DRLSUR	02		P	MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1700 HR 6/23/08 DA AT REPORT TIME
6/24/2008	SUPERVISOR: LEW WELDON						MD: 1,830
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 930'
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1830'
6/25/2008	SUPERVISOR: LEW WELDON						MD: 2,060
	0:00 - 15:00	15.00	DRLSUR	02		P	RIG T/D @ 2060' CONDITION HOLE 1 HR
	15:00 - 18:00	3.00	DRLSUR	05		P	TRIP DP OUT OF HOLE
	18:00 - 21:00	3.00	DRLSUR	11		P	RUN 2016' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	21:00 - 22:00	1.00	DRLSUR	15		P	CEMENT 1ST STAGE WITH 175 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRUOUT JOB + - 27 BBL LEAD CMT TO PIT
	22:00 - 22:30	0.50	DRLSUR	15		P	1ST TOP JOB 100 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC

	22:00 - 22:30	0.50	DRLSUR	15		P	1ST TOP JOB 100 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC
	22:30 - 23:30	1.00	DRLSUR	15		P	2ND TOP JOB 75 SKS DOWN BS GOOD CMT TO SURFACE AND STATYED AT SURFACE
	23:30 - 23:30	0.00	DRLSUR				NO VISIBLE LEAKS PIT 1/4 FULL WORT
7/20/2008	SUPERVISOR: LEW WELDON						MD: 2,060
	6:00 - 0:00	18.00	RDMO	01	E	P	RDRT F/MOVE TO 19E
7/21/2008	SUPERVISOR: KENNY MORRIS						MD: 2,060
	0:00 - 7:00	7.00	RDMO	01	E	P	PREP F/MOVE
	7:00 - 18:00	11.00	MIRU	01	A	P	MOVE W/RW JONES,
	18:00 - 0:00	6.00	MIRU	01	B	P	RURT
7/22/2008	SUPERVISOR: KENNY MORRIS						MD: 2,060
	0:00 - 11:00	11.00	MIRU	01	B	P	RURT,CHANGE KELLY HOSE,RAISE DERRICK @DAYLITE,
	11:00 - 18:00	7.00	MIRU	06	D	P	SLIP NEW DRLG LINE ON CARRIER,SLIP NEW THRU BLOCKS
	18:00 - 0:00	6.00	MIRU	01	B	P	RURT,,FLOOR,KELLY,SWIVAL,,FUNCTION TEST BOP,GENERAL RIG EQUIPMENT
7/23/2008	SUPERVISOR: KENNY MORRIS						MD: 2,102
	0:00 - 3:00	3.00	PRPSPD	13	A	P	NUBOP,FLARE LINES
	3:00 - 9:30	6.50	PRPSPD	13	A	P	TEST BOP,ANN 2500,CSG 1500,RAMS& CHOKE 5K
	9:30 - 14:00	4.50	PRPSPD	05	A	P	RU.& P/U BHA ,,DRILL PIPE,
	14:00 - 21:00	7.00	PRPSPD	07	B	S	DROP SPINNERS TORQUE KELLY,PULL&REINSTALL LINERS IN BOTH PUMPS,GASKETS LEFT OUT
	21:00 - 23:30	2.50	PRPSPD	02	F	P	DRILL CEMENT & FE F/1850 TO 2060'
	23:30 - 0:00	0.50	DRLPRO	02	B	P	DRILL NEW 7.875 HOLE F/2060 TO 2102
7/24/2008	SUPERVISOR: KENNY MORRIS						MD: 3,190
	0:00 - 0:30	0.50	DRLPRO	09	A	P	SURVEY@2031=1

0:00 - 0:30	0.50	DRLPRO	09	A	P	SURVEY@2031=1
0:30 - 6:00	5.50	DRLPRO	02	B	P	DRILL F/2102 TO 2482,AVG 69 WT 8.4 /27
6:00 - 11:00	5.00	DRLPRO	07	B	S	POOH TO SHOE CHANGE KELLY HOSE,TIH
11:00 - 12:00	1.00	DRLPRO	02	B	P	DRILL F/2482' TO 2544,AVG 62 WT 8.7/27
12:00 - 12:30	0.50	DRLPRO	09	A	P	SURVEY@2474=1
12:30 - 13:00	0.50	DRLPRO	06	A	P	RIG SERVICE
13:00 - 23:00	10.00	DRLPRO	02	B	P	DRILL F/2544 TO 3148,AVG 60 WT 8.9/33
23:00 - 23:30	0.50	DRLPRO	09	A	P	SURVEY@3078=1.5
23:30 - 0:00	0.50	DRLPRO	02	B	P	DRILL F/3148 TO 3190,AVG 42 WT 8.9/34

7/25/2008 SUPERVISOR: KENNY MORRIS MD: 4,386

0:00 - 9:00	9.00	DRLPRO	02	B	P	DRILL F/3190 TO 3593,AVG 45 WT 8.6/36
9:00 - 9:30	0.50	DRLPRO	06	A	P	RIG SERVICE
9:30 - 10:00	0.50	DRLPRO	09	A	P	SURVEY@ 3523=1
10:00 - 14:00	4.00	DRLPRO	02	B	P	DRILL F/3593 TO 3878,AVG71 WT 8.8/38
14:00 - 14:30	0.50	DRLPRO	07	B	P	TIGHTEN SWIVEL PACKING
14:30 - 19:30	5.00	DRLPRO	02	B	P	DRILL F/3878 TO 4100,AVG 44 8.9/38
19:30 - 20:00	0.50	DRLPRO	09	A	P	SURVEY@ 4030=2
20:00 - 0:00	4.00	DRLPRO	02	B	P	DRILL F/4100 TO 4386AVG 71 WT 8.9/38

7/26/2008 SUPERVISOR: KENNY MORRIS MD: 5,404

0:00 - 10:30	10.50	DRLPRO	02	B	P	DRILL F/4386 TO 5025,AVG 60 WT 9.4/40
10:30 - 11:00	0.50	DRLPRO	06	A	P	RIG SERVICE
11:00 - 11:30	0.50	DRLPRO	09	A	P	SURVEY@4955=3

	11:00 - 11:30	0.50	DRLPRO	09	A	P	SURVEY@4955=3	
	11:30 - 0:00	12.50	DRLPRO	02	B	P	DRILL F/5025 TO 5404,AVG 30 WT 9.8 44	
7/27/2008	SUPERVISOR: KENNY MORRIS							MD: 6,038
	0:00 - 11:30	11.50	DRLPRO	02	B	P	DRILL F/5404 TO 5752,AVG 30 WT 10/46	
	11:30 - 12:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	12:00 - 12:30	0.50	DRLPRO	09	A	P	SURVEY@ 5682=2	
	12:30 - 0:00	11.50	DRLPRO	02	B	P	DRILL F/5752 TO 6038,AVG 26 WT 10.2/44	
7/28/2008	SUPERVISOR: KENNY MORRIS							MD: 6,560
	0:00 - 17:00	17.00	DRLPRO	02	B	P	DRILL F/6038 TO 6418,AVG 23 WT 10.4/44	
	17:00 - 17:30	0.50	DRLPRO	06	A	P	RIG SERVICE	
	17:30 - 0:00	6.50	DRLPRO	02	B	P	DRILL F/6418 TO 6560,AVG 23 WT 10.5/42	
7/29/2008	SUPERVISOR: BRAD PETERSEN							MD: 6,780
	0:00 - 9:00	9.00	DRLPRO	02	B	P	DRILL F/ 6560' TO 6702' (142' 15.7' HR) WT 10.5/45	
	9:00 - 9:30	0.50	DRLPRO	04	C	P	MIX & PUMP PILL	
	9:30 - 14:30	5.00	DRLPRO	05	A	P	TOOH W/ BIT #2 L/D MOTOR ,NO PROBLEMS ON TRIP	
	14:30 - 20:00	5.50	DRLPRO	05	A	P	P/U BIT #2 & NEW MOTOR TIH,FILL PIPE @ SHOE,NO FILL	
	20:00 - 0:00	4.00	DRLPRO	02	B	P	DRLG F/ 6700' TO 6780' (80' 20' HR) WT 10.7/43	
7/30/2008	SUPERVISOR: BRAD PETERSEN							MD: 7,220
	0:00 - 1:00	1.00	DRLPRO	02	B	P	DRLG F/ 6780' TO 6795' (15' HR) WT 10.7/43	
	1:00 - 1:30	0.50	DRLPRO	09	A	P	SURVEY @ 6725' 1.25 DEG.	
	1:30 - 12:00	10.50	DRLPRO	02	B	P	DRLG F/ 6795' TO 6986' (191' 18.1' HR) WT 10.7/43	
	12:00 - 12:30	0.50	DRLPRO	06	A	P	RIG SERVICE	

	12:30 - 0:00	11.50	DRLPRO	02	B	P	DRLG F/ 6986' TO 7220' (234'20.3' HR) WT 10.8/44		
7/31/2008	SUPERVISOR: BRAD PETERSEN							MD:	7,723
	0:00 - 13:00	13.00	DRLPRO	02	B	P	DRLG F/ 7220' TO 7497' (277' 21.3' HR) WT 11.8/44		
	13:00 - 13:30	0.50	DRLPRO	06	A	P	RIG SERVICE		
	13:30 - 0:00	10.50	DRLPRO	02	B	P	DRLG F/ 7497' TO 7723' (226' 21.5' HR) WT 10.8/44		
8/1/2008	SUPERVISOR: BRAD PETERSEN							MD:	8,070
	0:00 - 11:30	11.50	DRLPRO	02	B	P	DRLG F/ 7723' TO 7975' (252' 21.9' HR) WT 10.8/43		
	11:30 - 12:00	0.50	DRLPRO	06	A	P	RIG SERVICE		
	12:00 - 18:00	6.00	DRLPRO	02	B	P	DRLG F/ 7975' TO 8070' (95' 15.8' HR) WT 11/46		
	18:00 - 19:00	1.00	DRLPRO	04	C	P	MIX & PUMP PILL,DROP SURVEY		
	19:00 - 0:00	5.00	DRLPRO	05	A	P	TOOH W/ BIT #2 L/D BIT & MOTOR		
8/2/2008	SUPERVISOR: BRAD PETERSEN							MD:	8,552
	0:00 - 5:00	5.00	DRLPRO	05	A	P	CHANGE BIT & MOTOR,TIH W/BIT #3,NO PROBLEMS,NO FILL		
	5:00 - 12:30	7.50	DRLPRO	02	B	P	DRLG F/ 8070' TO 8259' (189' 25.2' HR) WT 11.1/42		
	12:30 - 13:00	0.50	DRLPRO	06	A	P	RIG SERVICE		
	13:00 - 0:00	11.00	DRLPRO	02	B	P	DRLG F/ 8259' TO 8552' (293' 26.6' HR) WT11.3/49		
8/3/2008	SUPERVISOR: BRAD PETERSEN							MD:	8,984
	0:00 - 15:00	15.00	DRLPRO	02	B	P	DRLG F/ 8552' TO 8862' (310' 20.6' HR) WT 11.4/45		
	15:00 - 15:30	0.50	DRLPRO	06	A	P	RIG SERVICE		
	15:30 - 0:00	8.50	DRLPRO	02	B	P	DRLG F/ 8862' TO 8984' (122' 14.3' HR)WT 11.4/44		
8/4/2008	SUPERVISOR: BRAD PETERSEN							MD:	9,160
	0:00 - 6:00	6.00	DRLPRO	02	B	P	DRLG F/ 8984' TO 9070' (86' 14.3' HR) WT11.4/43		
	6:00 - 7:00	1.00	DRLPRO	04	C	P	CIRC,MIX & PUMP PILL		

	6:00 - 7:00	1.00	DRLPRO	04	C	P	CIRC,MIX & PUMP PILL
	7:00 - 12:00	5.00	DRLPRO	05	A	P	TOOH W/BIT #3,CHANGE BITS
	12:00 - 14:00	2.00	DRLPRO	05	A	P	TIH W/ BIT #4 & BHA
	14:00 - 15:30	1.50	DRLPRO	06	D	P	SLIP & CUT DRLG LINE
	15:30 - 19:30	4.00	DRLPRO	05	A	P	FINISH TIH
	19:30 - 20:30	1.00	DRLPRO	03	D	P	WASH 45' TO BTM,NO FILL
	20:30 - 0:00	3.50	DRLPRO	02	B	P	DRLG F/ 9070' TO 9160' (90'16.3' HR) WT 11.5/44

8/5/2008 SUPERVISOR: BRAD PEDERSEN MD: 9,680

0:00 - 15:00	15.00	DRLPRO	02	B	P	DRLG F/ 9160'-9527' (367' 24.4' hr) 11.7/46
15:00 - 15:30	0.50	DRLPRO	06	A	P	RIG SERVICE
15:30 - 19:30	4.00	DRLPRO	02	B	P	DRLG F/ 9527' TO 9680' TD (153' 38.2' HR) WT 11.8/46,TD @ 19:30 8/5/2008
19:30 - 22:00	2.50	DRLPRO	04	C	P	CIRC F/ SHORT TRIP,PUMP PILL
22:00 - 23:00	1.00	DRLPRO	05	E	P	SHORT TRIP TO 8750' NO PROBLEMS
23:00 - 0:00	1.00	DRLPRO	04	C	P	CIRC F/ LDDP,SAFETY MEETING W/ & R/U TESCO

8/6/2008 SUPERVISOR: BRAD PEDERSEN MD: 9,680

0:00 - 10:00	10.00	DRLPRO	05	A	P	LDDP,BREAK KELLY,LD BHA,PULL WEAR RING
10:00 - 16:30	6.50	DRLPRO	10	C	P	SAFETY MEETING W/ HALLIBURTON R/U & RUN QUAD COMBO TO 9679',R/D LOGGERS
16:30 - 0:00	7.50	DRLPRO	11	B	P	SAFETY MEETING W/ TESCO R/U & RUN 4.5" PROD CASING

8/7/2008 SUPERVISOR: BRAD PEDERSEN MD: 9,680

0:00 - 2:00	2.00	DRLPRO	11	B	P	FINISH RUNNING 228 JTS 4.5,11.6,I-80 TO 9663'
2:00 - 3:00	1.00	DRLPRO	04	E	P	ATTEMPT TO CIRC F/ CMT PUMPED 150 BBLS NO RETURNS,BUILD VOLUME MIX LCM TO 5% PUMPED 150 BBLS NO RETURNS

Wins No.: 95182							NBU 1021-19E	API No.: 4304739006
2:00 - 3:00	1.00	DRLPRO	04	E	P	ATTEMPT TO CIRC F/ CMT PUMPED 150 BBLS NO RETURNS,BUILD VOLUME MIX LCM TO 5% PUMPED 150 BBLS NO RETURNS		
3:00 - 5:30	2.50	DRLPRO	12	E	Z	WAIT ON BJ SERVICES DUE TO TRUCK BROKE DOWN ENROUTE TO LOCATION		
5:30 - 9:00	3.50	DRLPRO	15	A	P	SAFETY MEETING W/ BJ SERVICES R/U & PUMP 20 BBLS MUD CLEAN,20 BBLS SCAVENGER,440 SX LEAD,1800 SX TAIL DISPLACE W/ 150 BBLS CLAY TREAT,NO RETURNS DURING JOB UNTILSTART OF DISPLACMENT, 29 BBLS CMT BACK,BUMP PLUG @ 3677 PSI HELD,R/D BJ		
9:00 - 14:00	5.00	DRLPRO	13	A	S	NIPPLE DOWN SET SLIPS @ 70K,CUT OFF CASING		
14:00 - 16:00	2.00	DRLPRO	01	E	P	CLEAN PITS RELEASE RIG @ 16:00 8/7/2008 TO NBU 1021-13N		

Wins No.: 95182	NBU 1021-19E	API No.: 4304739006

EVENT INFORMATION:			
	EVENT ACTIVITY: COMPLETION	START DATE: 8/18/2008	AFE NO.: 2011273
	OBJECTIVE: DEVELOPMENT	END DATE:	
	OBJECTIVE 2: ORIGINAL	DATE WELL STARTED PROD.:	
	REASON: MV	Event End Status:	

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location

MILES 2 / 2

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
8/18/2008	SUPERVISOR: JEFF SAMUELS						MD:
	7:00 - 17:00	10.00	COMP	31	I	P	7:00 A.M. HSM ROAD RIG & EQUIP F/ NBU 921-14P TO LOC. MIRU, NDWH. NUBOPE. PREP & TALLY 2 3/8" L-80 8RD 4.7# TBG. P/U 3 7/8" MILL, BIT SUB & RIH P/U TBG OFF TRAILER TO 8284'. X-O POOH W/ TBG. EOT @ 4493'. SWI. SDFN
8/19/2008	SUPERVISOR: JEFF SAMUELS						MD:
	7:00 - 18:00	11.00	COMP	36	B	P	7:00 A.M. HSM CONT TO POOH W/ TBG F/ 4493', L/D MILL & BIT SUB. NDBOPE, NU FRAC VLV'S. MIRU B&C QUICK TST. FILL CSG & PSI TST CSG & FRAC VLV'S TO 7500# (HELD). RDMO B&C. MIRU CUTTERS. P/U 3 3/8" EXP PERF GUNS LOADED W/ 23 GM CHARGES. 4 SPF, 90 DEG PHASING & RIH. SHOOT 8 HOLES F/ 9260' - 62', P/U SHOOT 24 HOLES F/ 9228' - 34', P/U SHOOT 8 HOLES F/ 9186' - 88'. POOH. MIRU WEATHERFORD FRAC SVC. PRIME PMP'S & PSI TST LINES TO 8500# (HELD). PREP TO FRAC NOTE: ALL STAGES SHOT W/ 3 3/8" EXP PERF GUNS LOADED W/ 23 GM CHARGES, 3 & 4 SPF, 90 & 120 DEG PHASING. ALL CBP'S ARE 4 1/2" BAKER 8K CBP'S. ALL STAGES INCLUDE NALCO SCALE INHIB, 3 GPT IN PAD & 1/2 RAMP, 10 GPT IN FLUSH & PRE PAD. ALL CLEAN FLUID INCLUDE NALCO BIOCIDE (new) @ .50 GPT. STG 1: BRK DWN PERF'S @ 4169#, EST INJ RT @ 51 BPM @ 5400#, ISIP 3287#, FG .80, TREAT STG 1 W/ 31858 SAND, TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 1016 BBLS. ISIP 3355#, NPI 68#, FG .81 STG 2: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 9113', P/U SHOOT 15 HOLES F/ 9078' - 83', P/U SHOOT 9 HOLES F/ 9017' - 20', P/U SHOOT 9 HOLES F/ 8972' - 75', P/U SHOOT 6 HOLES F/ 8928' - 30'. POOH. BRK DWN PERF'S @ 5085#, EST INJ RT @ 50.9 BPM @ 5900#, ISIP 3236#, FG .80, TREAT STG 2 W/ 141,294# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 3818 BBLS. ISIP 2905#, NPI -331#, FG .77 SWI. SDFN
8/20/2008	SUPERVISOR: WILL GLEAVE						MD:

	7:00 - 18:00	11.00	COMP	36	E	P	HSM. PU 3-1/8 PERF GUNS & 4-1/2 CBP. RIH, SET CBP @ 8864'. PU, SHOOT 24 HOLES FROM 8828-34'. PU, SHOOT 16 HOLES FROM 8816-20'. POOH. BREAK DOWN PERFS @ 5745#, ISIP 3256#. FG.81. EST INJ RATE OF 40 BBL/MIN @ 4600#. TREATED STAGE 3 W/ 73,909# SAND, TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOTAL CLEAN FLUID 1990 BBLS. ISIP 3039. FG .79. NPI -217. STAGE 4:. PU 3-1/8 PERF GUNS & 4-1/2 CBP. RIH, SET CBP @ 8248'. PU, SHOOT 16 HOLES FROM 8214-18', PU, SHOOT 16 HOLES FROM 8146-50', PU, SHOOT 8 HOLES FROM 8020-22'. POOH. BREAK DOWN PERFS @ 6427#, ISIP 2475, FG .75. EST INJ RATE OF 51 BBL/MIN @ 5600#.. TREATED STAGE 4 W/ 87,378# SAND, TAILED IN W/ 5000# TLC SAND W/ SLK WTR. 2243 BBLS TOTAL CLEAN FLUID. ISIP 3262#. FG .84, NPI 787. STAGE 5:. PU 3-1/8 PERF GUNS & 4-1/2 CBP. RIH, SET CBP @7985', PU, SHOOT 12 HOLES FROM 7951-55', PU, SHOOT 12 HOLES FROM 7916-20', PU, SHOOT 9 HOLES FROM 7890-93'. PU, SHOOT 6 HOLES FROM 7850-52'. POOH. BREAK DOWN PERFS @ 3754#, ISIP 2068, FG .70. EST INJ RATE OF 53 BBL/MIN @ 4530#. TREATED STAGE 5 W/ 167,983# SAND, TAILED IN W/ 5000# TLC SAND W/ SLK WTR. 4211 BBLS TOTAL CLEAN FLUID. ISIP 3500, FG .89, NPI 1432#. PU 4-1/2 CBP, RIH, SET CBP @ 7770'. POOH. RDMO CUTTERS WIRELINE. RDMO WEATHERFORD FRAC. PU POBS & 3-7/8 ROCK & TIH TO 7747'. SWI-SDFN
8/21/2008	SUPERVISOR: WILL GLEAVE						MD:
	7:00 - 17:00	10.00	COMP	44	C	P	HSM #4. PU SWIVEL. RU PUMP & LINES. TAG KILL PLUG. BREAK CIRC. D.O. 1ST CBP @ 7,770'. 1000 # INC. TIH, TAG FILL @ 7,955 (30' FILL) D.O. 2ND CBP @ 7985". 700 # INC. TIH, TAG FILL @ 8208' (40' FILL) D.O. 3RD CBP@ 8248'.500 # INC. TIH, TAG FILL @ 8834' (30'FILL) D.O. 4TH CBP @ 8,864". 600 # INC. TIH, TAG FILL @ 9053' (60' FILL) D.O. 5TH CBP @ 9113". 500 # INC. TIH, TAG FILL @9484' (135' FILL) C.O. TO PBTD @ 9619' LD SWIVEL. LD 23 JTS ON TRAILER. HANG TBG OFF. ND BOPS. DROP BALL. NU WH. PUMP OFF BIT @ 3000# TURN OVER TO FLOW BACK CREW. RDMO TO NBU 920-20L. SDFN 48/64 CHOKE SICP 1750 TBG PSI 100 281 JTS IN WELL 30 ON TRAILER 311 JTS ON LOC EOT @ 8904'
8/22/2008	SUPERVISOR: WILL GLEAVE						MD:
	7:00 -			33	A		7 AM FLBK REPORT: CP 1450#, TP 1375#, 16/64" CK, 55 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 4100 BBLS LEFT TO RECOVER: 9178
8/23/2008	SUPERVISOR: WILL GLEAVE						MD:
	7:00 -			33	A		7 AM FLBK REPORT: CP 1150#, TP 1275#, 16/64" CK, 42 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5195 BBLS LEFT TO RECOVER: 8083
8/24/2008	SUPERVISOR: WILL GLEAVE						MD:

	7:00 -	33	A	7 AM FLBK REPORT: CP 800#, TP 1325#, 18/64" CK, 35 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 6170 BBLS LEFT TO RECOVER: 7108
8/25/2008	SUPERVISOR: WILL GLEAVE			MD:
	7:00 -	33	A	7 AM FLBK REPORT: CP 1150#, TP 1300#, 18/64" CK, 28 BWPH, L TRACE SAND, - GAS TTL BBLS RECOVERED: 6892 BBLS LEFT TO RECOVER: 6386

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2146'FNL, 879'FWL LOT 2
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 6/22/2008

15. DATE T.D. REACHED: 8/5/2008

16. DATE COMPLETED: 8/23/2008 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5192'GL

18. TOTAL DEPTH: MD 9,680 TVD

19. PLUG BACK T.D.: MD 9,619 TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
CBL-CCL-GR, CCS, SD, DSN, HRI

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,060		550			
7 7/8"	4 1/2 I-80	11.6#		9,680		2240			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,904							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	7,850	9,262		
(B) WSMVD				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,850 9,262	0.36	198	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7850'-9262'	PMP 13,278 BBLS SLICK H2O & 502,422# 30/50 OTTOWA SD

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

(5/2000) **(CONTINUED ON BACK)**

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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
8/23/2008	8/29/2008	24		0	1,339	312	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
18/64	1,009	1,675					0	1,339	312	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,113				
MAHOGANY	1,831				
WASATCH	4,415	7,013			
MESAVERDE	7,456	9,570			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE DATE 9/16/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT#891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2146' FNL, 879' FWL LOT 2

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION.
THE OPERATOR PROPOSES TO COMPLETE THE WASATCH AND THE EXISTING MESAVERDE FORMATION.
THE OPERATOR WILL COMMINGLE THE NEWLY WASATCH AND MESAVERDE INTERVALS ALONG WITH
THE EXISTING MESAVERDE FORMATIONS.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

COPY SENT TO OPERATOR
Date: 12.4.2008
Initials: KS

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE Sheila Upchego mr DATE 11/17/2008

(This space for State use only)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING
Date: 11/26/08
By: Dustin Doucet
Cause 173-14

RECEIVED
NOV 24 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Name: NBU 1021-19E
Location: SWNW-Section 19-T10S-R21E
Uintah County, UT
Date: November 14, 2008

ELEVATIONS: 5192' GL 5208' KB

TOTAL DEPTH: 9680' **PBTD:** 9619'
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 2032'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9665"
Marker Joint **4366'-4387'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS:

1113' Green River
1831' Mahogany
4416' Wasatch
7425' Mesaverde

CBL indicates good cement bond below 3000'

GENERAL:

- A minimum of **25** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 08/06/2008.
- **9** fracturing stages required for coverage.
- Procedure calls for 9 CBP's (**8000** psi) and **1 flow through plug** (8000 psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and ½ the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). DO NOT OVERDISPLACE. Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.

- Pump **resin coated sand** last 5,000# of all frac stages
- Tubing Currently Landed @~8904'
- Originally completed on 8/21/08

Existing Perforations:

Stage	Zones	Perforations		SPF	Holes
		Top, ft	Bottom, ft		
1	MESAVERDE	9186	9188	4	8
	MESAVERDE	9228	9234	4	24
	MESAVERDE	9260	9262	4	8
	# of Perfs/stage				40
2	MESAVERDE	8928	8930	3	6
	MESAVERDE	8972	8975	3	9
	MESAVERDE	9017	9020	3	9
	MESAVERDE	9078	9083	3	15
	# of Perfs/stage				39
3	MESAVERDE	8816	8820	4	16
	MESAVERDE	8828	8834	4	24
	# of Perfs/stage				40
4	MESAVERDE	8020	8022	4	8
	MESAVERDE	8146	8150	4	16
	MESAVERDE	8214	8218	4	16
	# of Perfs/stage				40
5	MESAVERDE	7850	7852	3	6
	MESAVERDE	7890	7893	3	9
	MESAVERDE	7916	7920	3	12
	MESAVERDE	7951	7955	3	12
	# of Perfs/stage				39

PROCEDURE:

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. If the tubing is below the proposed CBP depth, TOOH with 2-3/8", 4.7#, N-80 tubing (currently landed at ~8904'). Visually inspect for scale and consider replacing if needed. If the tubing is above the proposed CBP depth, RIH with tubing and tag for fill before TOOH.

3. If tbg looks ok consider running a gauge ring to 7836' (50' below proposed CBP). Otherwise P/U a mill and C/O to 7836' (50' below proposed CBP).

4. Set 8000 psi Flow Through Plug at ~ 7786'. Pressure test BOP and casing to 6000 psi. .

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	7742	7756	3	42

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7692' and trickle 250gal 15%HCL w/ scale inhibitor in flush . Note: Stage is pumped at a reduced rate.

7. Set 8000 psi CBP at ~7512'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	7468	7482	3	42

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7424' and trickle 250gal 15%HCL w/ scale inhibitor in flush. Note: Stage has tight spacing and is pumped at a reduced rate.

9. Set 8000 psi CBP at ~7414'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7280	7282	3	6
WASATCH	7298	7300	3	6
WASATCH	7330	7334	3	12
WASATCH	7380	7384	4	16

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~7230' trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~7143'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7006	7014	3	24
WASATCH	7068	7071	3	9
WASATCH	7110	7113	3	9

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6956' and trickle 250gal 15%HCL w/ scale inhibitor in flush. Note: Stage has tight spacing.

13. Set 8000 psi CBP at ~6942'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6752	6756	3	12
WASATCH	6818	6820	3	6
WASATCH	6854	6858	4	16
WASATCH	6910	6912	4	8

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6730' and trickle 250gal 15%HCL w/ scale inhibitor in flush. Note: Stage has tight spacing.

15. Set 8000 psi CBP at ~6720'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6552	6558	3	18

WASATCH	6682	6690	3	24

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~6502' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

17. Set 8000 psi CBP at ~6440'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6238	6240	3	6
WASATCH	6249	6251	3	6
WASATCH	6266	6268	3	6
WASATCH	6282	6284	3	6
WASATCH	6406	6410	4	16

18. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~6188' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

19. Set 8000 psi CBP at ~6113'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5946	5948	3	6
WASATCH	5972	5974	3	6
WASATCH	6000	6003	3	9
WASATCH	6016	6018	4	8
WASATCH	6080	6083	4	12

20. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~5896' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

21. Set 8000 psi CBP at ~5636'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	5516	5522	3	18
WASATCH	5582	5586	3	12
WASATCH	5602	5606	3	12

22. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~5466' and flush only with recycled water.

23. Set 8000 psi CBP at~5466'.

24. TIH with 3 7/8" bit, pump off sub, SN and tubing.

25. Drill plugs and clean out to flow through plug at 7786' (do not drill out). Open sleeve and DO NOT PUMP OFF SUB and land tubing at ±**7438**' unless indicated otherwise by the well's behavior. This well will be commingled at this time. As well dictates, come back to location and drill flow through plug, clean out to 9619', and land tubing at +/- 8900'.

26. RDMO

For design questions, please call

David Cocciolone, Denver, CO
(832)-453-2043 (Cell)
(720)-929-6716 (Office)

For field implementation questions, please call
Robert Miller, Vernal, UT
(435)-781-7041 (Office)

NOTES:

Expected incremental IP of 450 MCFD. Well is currently producing 455 MCFD. Expected IP of 905 MCFD.

Recompleted similar to NBU 1021-19D and 19C, though this recomplete is utilizing slickwater. Going after sands not typically thought of as pay (shalier intervals).

NBU 1021-19E Recomplete
Perforation and CBP Summary

Stage	Zones	Perforations Top, ft	Perforations Bottom, ft	SPF	Holes		Fracture Coverage		
1	MESAVERDE	7742	7756	3	42		7603	to	7604
	MESAVERDE		No Perfs				7620	to	7620
	MESAVERDE		No Perfs				7626	to	7637
	MESAVERDE		No Perfs				7651	to	7654
	MESAVERDE		No Perfs				7658	to	7663
	MESAVERDE		No Perfs				7666	to	7669
	MESAVERDE		No Perfs				7684	to	7691
	MESAVERDE		No Perfs				7742	to	7757
	# of Perfs/stage				42		CBP DEPTH	7,512	
2	MESAVERDE	7468	7482	3	42		7459	to	7464
	MESAVERDE		No Perfs				7468	to	7475
	MESAVERDE		No Perfs				7476	to	7481
	MESAVERDE		No Perfs				7483	to	7486
	MESAVERDE		No Perfs				7488	to	7490
	MESAVERDE		No Perfs				7500	to	7502
	MESAVERDE		No Perfs				7507	to	7507
	MESAVERDE		No Perfs				7515	to	7515
	MESAVERDE		No Perfs				7521	to	7523
	MESAVERDE		No Perfs				7524	to	7525
	# of Perfs/stage				42		CBP DEPTH	7,414	
3	WASATCH	7280	7282	3	6		7206	to	7208
	WASATCH	7298	7300	3	6		7237	to	7237
	WASATCH	7330	7334	3	12		7250	to	7250
	WASATCH	7380	7384	4	16		7279	to	7280
	WASATCH		No Perfs				7291	to	7291
	WASATCH		No Perfs				7326	to	7327
	WASATCH		No Perfs				7372	to	7372
	WASATCH		No Perfs				7381	to	7388
	# of Perfs/stage				40		CBP DEPTH	7,143	
4	WASATCH	7006	7014	3	24		6982	to	6982
	WASATCH	7068	7071	3	9		6995	to	6999
	WASATCH	7110	7113	3	9		7010	to	7013
	WASATCH		No Perfs				7039	to	7039
	WASATCH		No Perfs				7069	to	7070
	WASATCH		No Perfs				7074	to	7074
	WASATCH		No Perfs				7079	to	7080
	WASATCH		No Perfs				7111	to	7114
	WASATCH		No Perfs				7147	to	7148
	# of Perfs/stage				42		CBP DEPTH	6,942	
5	WASATCH	6752	6756	3	12		6716	to	6716
	WASATCH	6818	6820	3	6		6814	to	6814
	WASATCH	6854	6858	4	16		6851	to	6851
	WASATCH	6910	6912	4	8		6855	to	6855
	WASATCH		No Perfs				6877	to	6878
	WASATCH		No Perfs				6906	to	6907
	WASATCH		No Perfs				6908	to	6909
	WASATCH		No Perfs				6938	to	6950
	# of Perfs/stage				42		CBP DEPTH	6,720	
6	WASATCH	6552	6558	3	18		6472	to	6472
	WASATCH	6682	6690	3	24		6502	to	6502
	WASATCH		No Perfs				6546	to	6547
	WASATCH		No Perfs				6552	to	6560
	WASATCH		No Perfs				6561	to	6561
	WASATCH		No Perfs				6630	to	6630
	WASATCH		No Perfs				6645	to	6646
	WASATCH		No Perfs				6687	to	6692
	# of Perfs/stage				42		CBP DEPTH	6,440	
7	WASATCH	6238	6240	3	6		6150	to	6150
	WASATCH	6249	6251	3	6		6261	to	6261
	WASATCH	6266	6268	3	6		6266	to	6269
	WASATCH	6282	6284	3	6		6284	to	6284
	WASATCH	6406	6410	4	16		6403	to	6404
	WASATCH		No Perfs				6406	to	6406
	WASATCH		No Perfs				6408	to	6408
	WASATCH		No Perfs				6410	to	6410
	WASATCH		No Perfs				6452	to	6460
	# of Perfs/stage				40		CBP DEPTH	6,113	
8	WASATCH	5946	5948	3	6		5825	to	5825
	WASATCH	5972	5974	3	6		5872	to	5872
	WASATCH	6000	6003	3	9		5984	to	5984
	WASATCH	6016	6018	4	8		6000	to	6004
	WASATCH	6080	6083	4	12		6008	to	6008
	WASATCH		No Perfs				6035	to	6035
	WASATCH		No Perfs				6107	to	6115
	# of Perfs/stage				41		CBP DEPTH	5,636	
9	WASATCH	5516	5522	3	18		5508	to	5525
	WASATCH	5582	5586	3	12		5583	to	5588
	WASATCH	5602	5606	3	12		5589	to	5594
	WASATCH		No Perfs				5598	to	5608
	# of Perfs/stage				42		CBP DEPTH	5,466	
	Totals				373				

Fracturing Schedules
NBU 1021-19E Recomplete
Slickwater Frac

Stage	Zone	Feet of Pay	Perfs Top, ft	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial PPG	Final PPG	Fluid	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	1	7742	7758	3	42	Varied	Pump-in test			Slickwater	0	0						48
	MESAVERDE	0		No Perfs			0	ISIP and 5 min ISIP											46
	MESAVERDE	11		No Perfs			40	Slickwater Pad			Slickwater	362	362	15.0%	0.0%	0	0		46
	MESAVERDE	3		No Perfs			40	Slickwater Ramp	0.25	1	Slickwater	683	1,045	28.3%	16.6%	17,930	17,930		43
	MESAVERDE	5		No Perfs			40	SW Sweep	0	0	Slickwater	0	1,045		0.0%	0	17,930		0
	MESAVERDE	3		No Perfs			40	Slickwater Ramp	1	1.5	Slickwater	683	1,728	28.3%	32.6%	35,859	53,789		43
	MESAVERDE	7		No Perfs			40	SW Sweep	0	0	Slickwater	125	1,853		0.0%	0	53,789		0
	MESAVERDE	15		No Perfs			40	Slickwater Ramp	0.5	1.5	Slickwater	71	1,924		2.8%	3,000	56,789		0
							40	Slickwater Ramp	1.5	2	Slickwater	683	2,536	28.3%	46.9%	50,203	106,992		0
							40	Flush (4-1/2")				120	2,655				106,992		48
								ISDP and 5 min ISDP											229
											Sand laden Volume								
		45	# of Perfs/stage			42						Flush depth	7692		gal/ft	2,250	2,378	lbs sand/ft	
							86.4	<< Above pump time (min)								CBP depth	7,512	1888	
2	MESAVERDE	5	7460	7492	3	42	Varied	Pump-in test			Slickwater	0	0						
	MESAVERDE	7		No Perfs			0	ISIP and 5 min ISIP											27
	MESAVERDE	5		No Perfs			40	Slickwater Pad			Slickwater	217	217	15.0%	0.0%	0	0		26
	MESAVERDE	9		No Perfs			40	Slickwater Ramp	0.25	1	Slickwater	410	627	28.3%	17.2%	10,758	10,758		0
	MESAVERDE	2		No Perfs			40	SW Sweep	0	0	Slickwater	0	627		0.0%	0	10,758		26
	MESAVERDE	2		No Perfs			40	Slickwater Ramp	1	1.5	Slickwater	410	1,037	28.3%	34.5%	21,516	32,273		0
	MESAVERDE	0		No Perfs			40	SW Sweep	0	0	Slickwater	0	1,037		0.0%	0	32,273		0
	MESAVERDE	0		No Perfs			40	Slickwater Ramp	0.5	1.5	Slickwater	0	1,037		0.0%	0	32,273		0
	MESAVERDE	2		No Perfs			40	Slickwater Ramp	1.5	2	Slickwater	410	1,446	28.3%	48.3%	30,122	62,395		0
	MESAVERDE	1		No Perfs			40	Flush (4-1/2")				116	1,562				62,395		48
								ISDP and 5 min ISDP											127
											Sand laden Volume								
		27	# of Perfs/stage			42						Flush depth	7424		gal/ft	2,250	2,311	lbs sand/ft	
							85.2	<< Above pump time (min)								CBP depth	7,414	18	
3	WASATCH	2	7260	7262	3	6	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	7290	7300	3	9	0	ISIP and 5 min ISIP											19
	WASATCH	0	7330	7334	3	12	50	Slickwater Pad			Slickwater	79	79	15.0%	0.0%	0	0		0
	WASATCH	1	7360	7364	4	16	50	Slickwater Ramp	0.25	1	Slickwater	148	227	28.3%	17.2%	3,895	3,895		0
	WASATCH	0		No Perfs			50	SW Sweep	0	0	Slickwater	0	227		0.0%	0	3,895		0
	WASATCH	1		No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	148	375	28.3%	34.5%	7,792	11,688		9
	WASATCH	0		No Perfs			50	SW Sweep	0	0	Slickwater	0	375		0.0%	0	11,688		0
	WASATCH	7		No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	375		0.0%	0	11,688		0
							50	Slickwater Ramp	1.5	2	Slickwater	146	521	28.3%	48.3%	10,908	22,596		0
							50	Flush (4-1/2")				112	636				22,596		48
								ISDP and 5 min ISDP											75
											Sand laden Volume								
		11	# of Perfs/stage			40						Flush depth	7230		gal/ft	2,000	2,054	lbs sand/ft	
							80.6	<< Above pump time (min)								CBP depth	7,143	87	
4	WASATCH	0	7006	7014	3	24	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	4	7066	7071	3	0	0	ISIP and 5 min ISIP											12
	WASATCH	5	7110	7113	3	9	50	Slickwater Pad			Slickwater	93	93	15.0%	0.0%	0	0		11
	WASATCH	0		No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	175	268	28.3%	17.2%	4,604	4,604		0
	WASATCH	1		No Perfs			50	SW Sweep	0	0	Slickwater	0	268		0.0%	0	4,604		11
	WASATCH	0		No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	176	444	28.3%	34.5%	9,209	13,813		0
	WASATCH	1		No Perfs			50	SW Sweep	0	0	Slickwater	0	444		0.0%	0	13,813		0
	WASATCH	3		No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	444		0.0%	0	13,813		0
	WASATCH	1		No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	175	619	28.3%	48.3%	12,892	26,704		0
							50	Flush (4-1/2")				108	727				26,704		45
								ISDP and 5 min ISDP											79
											Sand laden Volume								
		13	# of Perfs/stage			42						Flush depth	6956		gal/ft	2,000	2,054	lbs sand/ft	
							72.4	<< Above pump time (min)								CBP depth	6,942	14	
5	WASATCH	0	6752	6756	3	12	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	6818	6820	3	6	0	ISIP and 5 min ISIP											14
	WASATCH	0	6854	6864	4	16	50	Slickwater Pad			Slickwater	107	107	15.0%	0.0%	0	0		13
	WASATCH	0	6910	6912	4	0	50	Slickwater Ramp	0.25	1	Slickwater	202	310	28.3%	17.2%	5,313	5,313		0
	WASATCH	1		No Perfs			50	SW Sweep	0	0	Slickwater	0	310		0.0%	0	5,313		13
	WASATCH	1		No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	202	512	28.3%	34.6%	10,625	15,938		0
	WASATCH	1		No Perfs			50	SW Sweep	0	0	Slickwater	0	512		0.0%	0	15,938		0
	WASATCH	1		No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	512		0.0%	0	15,938		0
	WASATCH	1		No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	202	714	28.3%	48.3%	14,875	30,813		0
							50	Flush (4-1/2")				105	819				30,813		44
								ISDP and 5 min ISDP											85
											Sand laden Volume								
		4	# of Perfs/stage			42						Flush depth	6730		gal/ft	7,600	7,703	lbs sand/ft	
							74.3	<< Above pump time (min)								CBP depth	6,720	10	
6	WASATCH	0	6552	6556	3	12	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	6852	6860	3	24	0	ISIP and 5 min ISIP											15
	WASATCH	1		No Perfs			50	Slickwater Pad			Slickwater	121	121	15.0%	0.0%	0	0		14
	WASATCH	0		No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	228	348	28.3%	17.2%	5,977	5,977		0
	WASATCH	0		No Perfs			50	SW Sweep	0	0	Slickwater	0	348		0.0%	0	5,977		14
	WASATCH	0		No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	228	576	28.3%	34.5%	11,953	17,930		0
	WASATCH	1		No Perfs			50	SW Sweep	0	0	Slickwater	0	576		0.0%	0	17,930		0
	WASATCH	6		No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	576		0.0%	0	17,930		0
							50	Slickwater Ramp	1.5	2	Slickwater	228	804	28.3%	48.3%	16,734	34,664		0
							50	Flush (4-1/2")				101	905				34,664		42
								ISDP and 5 min ISDP											86
											Sand laden Volume								
		13	# of Perfs/stage			42						Flush depth	6502		gal/ft	2,250	2,311	lbs sand/ft	
							76.1	<< Above pump time (min)								CBP depth	6,440	62	
7	WASATCH	0	6230	6240	3	0	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	6249	6251	3	6	0	ISIP and 5 min ISIP											12
	WASATCH	3	6268	6268	3	6	50	Slickwater Pad			Slickwater	98	98	15.0%	0.0%	0	0		11
	WASATCH	0	6282	6304	3	6	50	Slickwater Ramp	0.25	1	Slickwater	182	279	28.3%	17.2%	4,781	4,781		0
	WASATCH	1	6405	6410	4	16	50	SW Sweep	0	0	Slickwater	0	279		0.0%	0	4,781		11
	WASATCH	0		No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	182	461	28.3%	34.5%	9,563	14,344		0
	WASATCH	0		No Perfs			50	SW Sweep	0	0	Slickwater	0	461		0.0%	0	14,344		0
	WASATCH	0		No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	461		0.0%	0	14,344		0
	WASATCH	0		No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	182	643	28.3%	48.3%	13,388	27,731		0
	WASATCH	1		No Perfs			50	Flush (4-1/2")				96	739				27,731		46
								ISDP and 5 min ISDP											75
											Sand laden Volume								
		5	# of Perfs/stage			40						Flush depth	6199		gal/ft	5,400	5,546	lbs sand/ft	
							72.9	<< Above pump time (min)								CBP depth	6,113	75	
8	WASATCH	0	5948	5948	3	6	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	5972	5974	3	6	0	ISIP and 5 min ISIP											11
	WASATCH	0	6002	6003	3	9	50	Slickwater Pad			Slickwater	86	86	15.0%	0.0%	0	0		10
	WASATCH	4	6015	6018	4	8	50	Slickwater Ramp	0.25	1	Slickwater	162	248	28.3%	17.2%	4,250	4,250		0
	WASATCH	0	6000	6003	4	12	50	SW Sweep	0	0	Slickwater	0	248		0.0%	0	4,250		0
	WASATCH	0		No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	162	410	28.3%	34.5%	8,500	12,750		10
	WASATCH	0		No Perfs			50	SW Sweep	0	0	Slickwater	0	410		0.0%	0	12,750		0
	WASATCH	1		No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	410		0.0%	0	12,750		0
							50	Slickwater Ramp	1.5	2	Slickwater	162	571	28.3%	46.3%	11,900	24,650		0
							50	Flush (4-1/2")				92	663				24,650		37
								ISDP and 5 min ISDP											68
											Sand laden Volume								
		5	# of Perfs/stage			41						Flush depth	5896		gal/ft	4,600	4,930	lbs sand/ft	
							71.4	<< Above pump time (min)								CBP depth	5,636	208	
9	WASATCH	12	5618	5622	3	18	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	6	5692	5696	3	12	0	ISIP and 5 min ISIP											37
	WASATCH	5	5802	5805	3	12	50	Slickwater Pad			Slickwater	207	207	15.0%	0.0%	0	0		35
	WASATCH	10		No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	562	859	28.3%	16.7%	14,742	14,742		0
							50	SW Sweep	0	0	Slickwater	0	859		0.0%	0	14,742		35
							50	Slickwater Ramp	1	1.5	Slickwater	562	1,421	28.3%	33.3%	29,484	44,227		0
							50	SW Sweep	0	0	Slickwater	125	1,546		0.0%	0	44,227		0
							50	Slickwater Ramp	0.5	1.5	Slickwater	71	1,617		3.4%	3,000	47,227		0
							50	Slickwater Ramp	1.5	2	Slickwater	562	2,107	28.3%	46.6%	41,278	88,505		0
							50	Flush (4-1/2")				85	2,192				88,505		108
								ISDP and 5 min ISDP											
											Sand laden Volume								
		37	# of Perfs/stage			42						Flush depth	5456		gal/ft	2,250	2,392	lbs sand/ft	
							0.0									CBP depth	5,456	0	LOCK
	Totals	162				373					gals		10,898	bbls		Total Sand		425,050	
							3.0				bbls		224.3	tanks				Total Scale Inhib.=	930

Fracturing Schedules
NBU 1021-15E Recomplete
Slickwater Frac

Stage	Zone	Feet of Perf	Perfs Top, ft	Perfs Bot. ft	SPF	Holes	Rate BPM	Fluid Type	Initial ISIP	Final ISIP	Fluid	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal
1	MESAVERDE	1	7742	7756	3	42	Varied	Pump-in test			Slickwater	0	0						
	MESAVERDE	0	No Perfs				0	ISIP and 5 min ISIP											49
	MESAVERDE	11	No Perfs				40	Slickwater Pad			Slickwater	362	362	15.0%	0.0%	0	0		46
	MESAVERDE	3	No Perfs				40	Slickwater Ramp	0.25	1	Slickwater	683	1,045	28.3%	16.9%	17,930	17,930		43
	MESAVERDE	5	No Perfs				40	5W Sweep	0	0	Slickwater	0	1,045		0.0%	0	17,930		0
	MESAVERDE	3	No Perfs				40	Slickwater Ramp	1	1.5	Slickwater	683	1,728	28.3%	33.8%	35,659	53,789		43
	MESAVERDE	7	No Perfs				40	5W Sweep	0	0	Slickwater	125	1,853		0.0%	0	53,789		0
	MESAVERDE	15	No Perfs				40	Slickwater Ramp	0.5	1.5	Slickwater	71	1,924		2.8%	3,000	56,789		0
							40	Slickwater Ramp	1.5	2	Slickwater	683	2,536	28.3%	46.9%	50,203	106,992		0
							40	Flush (4-1/2")				120	2,655				106,992		49
								ISDP and 5 min ISDP											229
											Sand laden Volume								
		45	# of Perfs/stage			42							Flush depth	7692		gal/ft 2,250	CBP depth 7,512	2,378 lbs sand/ft 199		
						50.4		ert Above pump line (btm)											
2	MESAVERDE	5	7468	7482	3	42	Varied	Pump-in test			Slickwater	0	0						
	MESAVERDE	7	No Perfs				0	ISIP and 5 min ISIP											27
	MESAVERDE	5	No Perfs				40	Slickwater Pad			Slickwater	217	217	15.0%	0.0%	0	0		26
	MESAVERDE	3	No Perfs				40	Slickwater Ramp	0.25	1	Slickwater	410	627	28.3%	17.2%	10,758	10,758		0
	MESAVERDE	2	No Perfs				40	5W Sweep	0	0	Slickwater	0	627		0.0%	0	10,758		26
	MESAVERDE	2	No Perfs				40	Slickwater Ramp	1	1.5	Slickwater	410	1,037	28.3%	34.5%	21,516	32,273		0
	MESAVERDE	0	No Perfs				40	5W Sweep	0	0	Slickwater	0	1,037		0.0%	0	32,273		0
	MESAVERDE	0	No Perfs				40	Slickwater Ramp	0.5	1.5	Slickwater	0	1,037		0.0%	0	32,273		0
	MESAVERDE	2	No Perfs				40	Slickwater Ramp	1.5	2	Slickwater	410	1,446	28.3%	48.3%	30,122	62,395		0
	MESAVERDE	1	No Perfs				40	Flush (4-1/2")				115	1,562				62,395		48
								ISDP and 5 min ISDP											127
											Sand laden Volume								
		27	# of Perfs/stage			42							Flush depth	7424		gal/ft 2,250	CBP depth 7,414	2,311 lbs sand/ft 18		
						32.2		ert Above pump line (btm)											
3	WASATCH	2	7269	7282	3	6	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	7284	7300	3	6	0	ISIP and 5 min ISIP											10
	WASATCH	0	7330	7334	3	12	50	Slickwater Pad			Slickwater	79	79	15.0%	0.0%	0	0		9
	WASATCH	1	7380	7384	4	16	50	Slickwater Ramp	0.25	1	Slickwater	148	227	28.3%	17.2%	3,896	3,896		9
	WASATCH	0	No Perfs				50	5W Sweep	0	0	Slickwater	0	227		0.0%	0	3,896		0
	WASATCH	1	No Perfs				50	Slickwater Ramp	1	1.5	Slickwater	148	375	28.3%	34.5%	7,792	11,688		9
	WASATCH	0	No Perfs				50	5W Sweep	0	0	Slickwater	0	375		0.0%	0	11,688		0
	WASATCH	7	No Perfs				50	Slickwater Ramp	0.5	1.5	Slickwater	0	375		0.0%	0	11,688		0
							50	Slickwater Ramp	1.5	2	Slickwater	148	524	28.3%	48.3%	10,908	22,596		0
							50	Flush (4-1/2")				112	636				22,596		46
								ISDP and 5 min ISDP											75
											Sand laden Volume								
		11	# of Perfs/stage			48							Flush depth	7230		gal/ft 2,000	CBP depth 7,143	2,054 lbs sand/ft 87		
						10.5		ert Above pump line (btm)											
4	WASATCH	8	7096	7214	2	24	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	4	7268	7271	3	9	0	ISIP and 5 min ISIP											12
	WASATCH	3	7110	7113	3	9	50	Slickwater Pad			Slickwater	93	93	15.0%	0.0%	0	0		11
	WASATCH	0	No Perfs				50	Slickwater Ramp	0.25	1	Slickwater	175	268	28.3%	17.2%	4,604	4,604		0
	WASATCH	1	No Perfs				50	5W Sweep	0	0	Slickwater	0	268		0.0%	0	4,604		11
	WASATCH	0	No Perfs				50	Slickwater Ramp	1	1.5	Slickwater	175	444	28.3%	34.5%	9,208	13,813		0
	WASATCH	1	No Perfs				50	5W Sweep	0	0	Slickwater	0	444		0.0%	0	13,813		0
	WASATCH	3	No Perfs				50	Slickwater Ramp	0.5	1.5	Slickwater	0	444		0.0%	0	13,813		0
	WASATCH	1	No Perfs				50	Slickwater Ramp	1.5	2	Slickwater	175	619	28.3%	48.3%	12,892	26,704		0
							50	Flush (4-1/2")				108	727				26,704		45
								ISDP and 5 min ISDP											79
											Sand laden Volume								
		13	# of Perfs/stage			42							Flush depth	6956		gal/ft 2,000	CBP depth 6,942	2,054 lbs sand/ft 14		
						52.4		ert Above pump line (btm)											
5	WASATCH	8	6782	6798	3	12	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	6816	6820	3	6	0	ISIP and 5 min ISIP											14
	WASATCH	9	6854	6858	4	16	50	Slickwater Pad			Slickwater	107	107	15.0%	0.0%	0	0		13
	WASATCH	0	6910	6912	4	8	50	Slickwater Ramp	0.25	1	Slickwater	202	310	28.3%	17.2%	5,313	5,313		0
	WASATCH	1	No Perfs				50	5W Sweep	0	0	Slickwater	0	310		0.0%	0	5,313		13
	WASATCH	1	No Perfs				50	Slickwater Ramp	1	1.5	Slickwater	202	512	28.3%	34.5%	10,625	15,938		0
	WASATCH	1	No Perfs				50	5W Sweep	0	0	Slickwater	0	512		0.0%	0	15,938		0
	WASATCH	1	No Perfs				50	Slickwater Ramp	0.5	1.5	Slickwater	0	512		0.0%	0	15,938		0
							50	Slickwater Ramp	1.5	2	Slickwater	202	714	28.3%	48.3%	14,875	30,813		0
							50	Flush (4-1/2")				105	819				30,813		44
								ISDP and 5 min ISDP											83
											Sand laden Volume								
		4	# of Perfs/stage			42							Flush depth	6730		gal/ft 7,500	CBP depth 6,720	7,703 lbs sand/ft 19		
						14.5		ert Above pump line (btm)											
6	WASATCH	8	6552	6568	3	18	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	6592	6600	3	24	0	ISIP and 5 min ISIP											15
	WASATCH	1	No Perfs				50	Slickwater Pad			Slickwater	121	121	15.0%	0.0%	0	0		14
	WASATCH	0	No Perfs				50	Slickwater Ramp	0.25	1	Slickwater	228	348	28.3%	17.2%	5,977	5,977		0
	WASATCH	0	No Perfs				50	5W Sweep	0	0	Slickwater	0	348		0.0%	0	5,977		14
	WASATCH	0	No Perfs				50	Slickwater Ramp	1	1.5	Slickwater	228	576	28.3%	34.5%	11,953	17,930		0
	WASATCH	1	No Perfs				50	5W Sweep	0	0	Slickwater	0	576		0.0%	0	17,930		0
	WASATCH	5	No Perfs				50	Slickwater Ramp	0.5	1.5	Slickwater	0	576		0.0%	0	17,930		0
							50	Slickwater Ramp	1.5	2	Slickwater	228	804	28.3%	48.3%	16,734	34,664		0
							50	Flush (4-1/2")				101	905				34,664		42
								ISDP and 5 min ISDP											86
											Sand laden Volume								
		15	# of Perfs/stage			42							Flush depth	6502		gal/ft 2,250	CBP depth 6,440	2,311 lbs sand/ft 42		
						46.5													
7	WASATCH	8	6238	6260	3	6	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	6249	6251	3	6	0	ISIP and 5 min ISIP											12
	WASATCH	3	6266	6268	3	6	50	Slickwater Pad			Slickwater	96	96	15.0%	0.0%	0	0		11
	WASATCH	0	6282	6284	3	6	50	Slickwater Ramp	0.25	1	Slickwater	182	279	28.3%	17.2%	4,781	4,781		0
	WASATCH	1	6406	6410	4	16	50	5W Sweep	0	0	Slickwater	0	279		0.0%	0	4,781		11
	WASATCH	0	No Perfs				50	Slickwater Ramp	1	1.5	Slickwater	182	461	28.3%	34.5%	9,563	14,344		0
	WASATCH	0	No Perfs				50	5W Sweep	0	0	Slickwater	0	461		0.0%	0	14,344		0
	WASATCH	0	No Perfs				50	Slickwater Ramp	0.5	1.5	Slickwater	0	461		0.0%	0	14,344		0
	WASATCH	1	No Perfs				50	Slickwater Ramp	1.5	2	Slickwater	182	643	28.3%	48.3%	13,388	27,731		0
							50	Flush (4-1/2")				96	739				27,731		40
								ISDP and 5 min ISDP											75
											Sand laden Volume								
		5	# of Perfs/stage			48							Flush depth	6188		gal/ft 3,000	CBP depth 6,113	5,546 lbs sand/ft 75		
						13.9													
8	WASATCH	0	5946	5948	3	6	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	0	5972	5974	3	6	0	ISIP and 5 min ISIP											11
	WASATCH	9	6000	6003	3	9	50	Slickwater Pad			Slickwater	86	86	15.0%	0.0%	0	0		10
	WASATCH	4	6016	6018	4	8	50	Slickwater Ramp	0.25	1	Slickwater	162	248	28.3%	17.2%	4,250	4,250		0
	WASATCH	0	6065	6067	4	12	50	5W Sweep	0	0	Slickwater	0	248		0.0%	0	4,250		10
	WASATCH	0	No Perfs				50	Slickwater Ramp	1	1.5	Slickwater	162	410	28.3%	34.5%	8,500	12,750		0
	WASATCH	1	No Perfs				50	5W Sweep	0	0	Slickwater	0	410		0.0%	0	12,750		0
							50	Slickwater Ramp	0.5	1.5	Slickwater	0	410		0.0%	0	12,750		0
							50	Slickwater Ramp	1.5	2	Slickwater	162	571	28.3%	48.3%	11,900	24,650		0
							50	Flush (4-1/2")				92	663				24,650		37
								ISDP and 5 min ISDP											68
											Sand laden Volume								
		1	# of Perfs/stage			42							Flush depth	5896		gal/ft 4,000	CBP depth 5,836	4,930 lbs sand/ft 268		
						13.4													
9	WASATCH	17	5516	5532	3	18	Varied	Pump-in test			Slickwater	0	0						
	WASATCH	5	5562	5566	3	12	0	ISIP and 5 min ISIP											37
	WASATCH	5	5602	5606	3	12	50	Slickwater Pad			Slickwater	297	297	15.0%	0.0%	0	0		35
	WASATCH	10	No Perfs				50	Slickwater Ramp	0.25	1	Slickwater	562	859	28.3%	16.7%	14,742	14,742		0
							50	5W Sweep	0	0	Slickwater	0	859		0.0%	0	14,742		35
							50	Slickwater Ramp	1	1.5	Slickwater	562	1,421	28.3%	33.3%	29,484	44,227		0
							50	5W Sweep	0	0	Slickwater	125	1,546		0.0%	0	44,227		0
							50	Slickwater Ramp	0.5	1.5	Slickwater	71	1,617		1.4%	3,000	47,227		0
							50	Slickwater Ramp	1.5	2	Slickwater	562	2,107	28.3%	46.6%	41,278	88,505		0
							50	Flush (4-1/2")				85	2,192				88,505		0
								ISDP and 5 min ISDP											108
											Sand laden Volume								
		37	# of Perfs/stage			42							Flush depth	5466		gal/ft 2,250	CBP depth 5,466	2,392 lbs sand/ft 9		LOOK
						0.0													
	Totals	182				373						gals	10,898	bbls		Total Sand	425,050		
						31.0							74.2	tons			Total SI-alv bbls: x		930

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2146'FNL, 879'FWL LOT 2

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☑ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR HAS PERFORMED A RECOMPLETION ON THE SUBJECT WELL LOCATION. THE OPERATOR HAS COMPLETED THE WASATCH AND MESAVERDE FORMATIONS. THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH AND MESAVERDE INTERVALS, ALONG WITH THE EXISTING MESAVERDE FORMATION. THE OPERATOR HAS PLACED THE SUBJECT WELL LOCATION ON PRODUCTION ON 01/09/2009 AT 1100 HRS.

PLEASE REFER TO THE ATTACHED RECOMPLETION CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE DATE 1/13/2009

(This space for State use only)

RECEIVED
JAN 20 2009
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Wins No.: 95182	NBU 1021-19E	API No.: 4304739006

EVENT INFORMATION:			
EVENT ACTIVITY: RECOMPLETION	START DATE: 12/29/2008	AFE NO.:	
OBJECTIVE: DEVELOPMENT	END DATE: 1/7/2009		
OBJECTIVE 2: RECOMPLETE	DATE WELL STARTED PROD.:		
REASON: MV, WAS	Event End Status: COMPLETE		

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
GWS 1 / 1		12/29/2008					01/07/2009

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
12/29/2008	SUPERVISOR: DAVID DANIELS						MD:
	7:00 - 7:30	0.50	COMP	48		P	HSM.
	7:30 - 18:00	10.50	COMP	31	I	P	ROAD RIG F/ BITTER CREEK 1122-4G, T/ NBU 1021-19E. MIRU RIG SPOT EQUIP. BLOW WELL DOWN T/ PROD TANK. 500# SICP. FTP 120#. BLOW WELL T/ 0#. RIG PUMP T/ TBG. PUMP 30 BBLS 2% KCL T/ CONTROL WELL. NDWH, NU BOP. RU TBG EQUIP & RIG FLOOR. RIG PUMP T/ CSG PUMP 120 BBLS 2% KCL T/ CONTROL WELL. UNLAND TBG, LD 4 1/16 TBG HNGR. POOH SB 226 JTS, LD 55 JTS 2 3/8, L-80 TBG. ND BOP, NU FRAC VALVES. MIRU CUTTER W.L.. PU 4 1/2, 8K FLTH CBP. RIH SET @ 7797'. POOH. RDMO CUTTERS W.L.. MIRU B&C QUICK TEST. RIG PUMP T/ CSG. FILL CSG W/ 120 BBLS 2% KCL. PSI T/ 2000#. CONTINUE PSI T/ 6200# W/ B&C QUICK TEST. GOOD TEST. BLEED OFF PSI T/ PIT. WINTERIZE WH. SWI. SDFN.
12/30/2008	SUPERVISOR: DAVID DANIELS						MD:
	7:00 - 15:00	8.00	COMP	46	F	P	STDBY. WAIT ON WEATHERFORD FRAC SERV.
12/31/2008	SUPERVISOR: DAVID DANIELS						MD:
	7:00 - 15:00	8.00	COMP	46	E	P	STDBY. WAIT ON WEATHERFORD FRAC SERV.
1/2/2009	SUPERVISOR: DAVID DANIELS						MD:
	7:00 - 15:00	8.00	COMP	46		P	STDBY. WAIT ON WEATHERFORD FRAC SERV
1/5/2009	SUPERVISOR: DAVID DANIELS						MD:
	7:00 - 7:30	0.50	COMP	48		P	HSM
	7:30 - 17:30	10.00	COMP	36	B	P	MIRU WEATHERFORD FRAC SERV & CUTTERS W.L.. OPEN WELL 0#. STG 1) PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF F/ 7742'-56', 3 SPF, 42 HOLES. POOH. X-OVER FOR FRAC CREW. OPEN WELL 0#. BEG PUMP BRK @ 4428# @ 3.1 BPM. SD ISIP 2266#, FG .74. BEG FRAC , PUMP 102,020# 30/50 WHITE & TAIL IN W/ 5000# 20/40 TLC. SD ISIP 3138#, FG.85. X-OVER FOR W.L.. STG 2) PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7512', P/U PERF F/ 7468'-82', 3 SPF, 42 HOLES. POOH, X-OVER FOR FRAC CREW. OPEN WELL 770#. BEG PUMP BRK @ 4536# @ 2.8 BPM. SD ISIP 2454#, FG .77. BEG FRAC PUMP 57,379# 30/50 OWATTA & TAIL IN W/ 5,000# TLC 20/40. SD ISIP 2990#, FG .84. X-OVER FOR W.L.. STG 3) PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 & 90 DEG PHASING. RIH SET CBP @ 7414', P/U PERF F/ 7280'-82', 3 SPF, 6 HOLES. 7298'-00', 3 SPF, 6 HOLES. 7330'-34', 3 SPF, 12 HOLES. 7380'-84', 4 SPF, 16 HOLES. POOH. X-OVER FOR FRAC CREW. OPEN WELL 1300#. BEG PUMP BRK @ 4595#, @ 4.9 BPM. SD ISIP 3263#, FG .89. BEG FRAC PUMP 17,717# 30/50 WHITE, TAIL IN W/ 5,000# TLC 20/40. SD ISIP 3820#, FG .96. X-OVER FOR W.L.. STG 4)PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. RIH SET CBP @ 7143', P/U PERF F/ 7006'-14', 3 SPF, 24 HOLES. 7068'-71', 3 SPF, 9 HOLES. 7110'-13', 3 SPF, 9 HOLES. POOH. X-OVER FOR FRAC CREW. OPEN WELL 160#. BEG PUMP BRK @ 2439# @ 3.2 BPM. SD ISIP 1544#, FG .66. BEG FRAC PUMP 21,671# 30/50 WHITE, TAIL IN W/ 5,000# TLC 20/40. SD ISIP 3162#, FG .89. SWI. WINTERIZE WELL HEAD. SDFN.

Wins No.: 95182	NBU 1021-19E	API No.: 4304739006

1/6/2009 SUPERVISOR: DAVID DANIELS MD:

7:00 - 7:30	0.50	COMP	48		P	HSM
7:30 - 18:00	10.50	COMP	36	B	P	OPEN WELL 1765#. STG 5) PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6928'. P/U PERF F/ 6752'-56', 3 SPF, 12 HOLES. 6818'-20', 3 SPF, 6 HOLES. 6854'-58', 4 SPF, 16 HOLES. 6910'-12', 4 SPF, 8 HOLES. POOH. X-OVER FOR FRAC CREW. OPEN WELL 231#. BEG PUMP BRK @ 3569' @ 2.9 BPM. SD ISIP 2380#, FG .79.. BEG FRAC PUMP 25,834# 30/50 WHITE, TAIL IN W/ 5,000# TLC 20/40. SD ISIP 2883#, FG .87.. X-OVER FOR W.L.. STG 6)PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6708', P/U PERF F/ 6552'-58', 3 SPF, 18 HOLES. 6682'-90', 3 SPF, 24 HOLES. POOH. X-OVER FOR FRAC CREW. OPEN WELL 200#. BEG PUMP BRK @ 3071# @ 2.9 BPM. SD ISIP 1862#, FG .73. BEG FRAC PUMP 29,765# 30/50 WHITE, TAIL IN W/ 5,000# TLC 20/40. SD ISIP 2693#, FG .85. X-OVER FOR W.L.. STG 7)PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 & 90 DEG PHASING. RIH SET CBP @ 6428', P/U PERF F/ 6238'-40', 3 SPF, 6 HOLES. 6249'-51', 3 SPF, 6 HOLES. 6266'-68', 3 SPF, 6 HOLES. 6282'-84', 3 SPF, 6 HOLES. 6406'-10', 4 SPF, 16 HOLES. POOH. X-OVER FOR FRAC CREW. OPEN WELL 800#. BEG PUMP BRK @ 3123# @ 3.1 BPM. SD ISIP 2227#, FG .80. BEG FRAC PUMP PAD & 5335# SAND LOST SUCKTION T/ CAS, HAD T/ SD FOR 4 MIN. FIXED PROBLEM, CONTINUE FRAC. PUMP 23,289# 30/50 WHITE, TAIL IN W/ 5,000# TLC 20/40. SD ISIP 2278#, FG .80.. X-OVER FOR W.L. STG 8)PU 4 1/2, 8K BAKER CBP & 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 & 90 DEG PHASING. RIH SET CBP @ 6113', P/U PERF F/ 5946'-48', 3 SPF, 6 HOLES. 5972'-74', 3 SPF, 6 HOLES. 6000'-03', 3 SPF, 9 HOLES. 6016'-18', 4 SPF, 8 HOLES. 6080'-83', 4 SPF, 12 HOLES. POOH. X-OVER FOR FRAC CREW. OPEN WELL 400#. BEG PUMP BRK @ 2360# @ 3.3 BPM. SD ISIP 1876#, FG .76. BEG FRAC PUMP 19,718# 30/50 WHITE TAIL IN W/ 5,000# TLC 20/40. SD ISIP 2270#, FG .82. X-OVER FOR W.L.. STG 9)PU 4 1/2, 8K CBP & 3 3/8 EXP GUN, 23 GM CHARGE, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 5622' P/U PERF F/ 5516'-22', 3 SPF, 18 HOLES. 5582'-86', 3 SPF, 12 HOLES. 5602'-06', 3 SPF, 12 HOLES. POOH. X-OVER T/ FRAC CREW. OPEN WELL 0#. BEG PUMP BRK @ 1788# @ 2.9 BPM. SD ISIP 1047#, FG .63. BEG FRAC. PUMP PAD STARTED SAND PUMP # 10 BLEW ANTI FREEZE HOSE. SHUT IN PUMP #10. CONT FRACING PUMPED 32,000# 30/50, HAD T/ SD. PUMP #4 CRACKED 3" LINE OFF FLUID END. UNHOOK PUMP F/ 4" LINE. SHUT DOWN FOR A TOTAL OF 8 MIN. CONT FRAC AS PER PROCEDURE. PUMPED 97,516# 30/50 WHITE TAIL IN W/ 5,000# TLC 20/40. SD ISIP 2429#, FG .88. X-OVER FOR W.L.. PU 4 1/2, 8K BAKER CBP. RIH SET CBP @ 5471'. POOH. RDMO CUTTERS W.L. & WEATHERFORD FRAC SERV. BLEED OFF WELL PSI. ND FRAC VALVES. NUBOP. RU RIG FLOOR & TBG EQUIP. SWI, SDFN. (STG 1 AND 9 PUMPED 125 BBL SWEEP W/ 71 BBL .50 T/ 1.5# RAMP.)

1/7/2009 SUPERVISOR: DAVID DANIELS MD:

7:00 - 7:30	0.50	COMP	48		P	HSM

	7:30 - 18:00	10.50	COMP	44	C	P	OPEN WELL 0#. PU 3 7/8 BIT + X-DART + POBS + XN-NIPPLE 1.875. RIH W/ TBG. TAG FILL @ 5466'. RU DRL EQUIP & BRK CONV CIRC. CBP 1)TAG FILL @ 5466'=5' FILL. C/O SAND. DRL OUT CBP @ 5471' IN 8 MIN, 0# INCR. CONT RIH. CBP 2)TAG FILL @ 5602'= 20' FILL. C/O SAND. DRL OUT CBP @ 5622' IN 8 MIN. 600# INCR. CONT RIH. CBP 3)TAG FILL @ 6103'= 10' FILL. C/O SAND. DRL OUT CBP @ 6113' IN 35 MIN. 200# INCR. CONT RIH. CBP 4)TAG FILL @ 6418'= 10' FILL. C/O SAND. DRL OUT CBP @ 5428' IN 7 MIN. 300# INCR. CONT RIH. CBP 5)TAG FILL @ 6678'= 30' FILL. C/O SAND. DRL OUT CBP @ 6708' IN 6 MIN. 200# INCR. CONT RIH. CBP 6)TAG FILL @ 6898'= 30' FILL. C/O SAND. DRL OUT CBP @ 6928' IN 7 MIN. 100# INCR. CONT RIH. CBP 7)TAG FILL @ 7100'=43' FILL. C/O SAND. DRL OUT CBP @ 7143' IN 5 MIN. 100# INCR. CONT RIH. CBP 8)TAG FILL @ 7384'= 30' FILL. C/O SAND. DRL OUT CBP @ 7414' IN 7 MIN. CONT RIH. CBP 9)TAG FILL @ 7494'= 25' FILL. C/O SAND. DRL OUT CBP @ 7515' IN 8 MIN. 300# INCR. CONT RIH, TAG FILL 7767'. C/O 30' T/ THE TOP OF FLHT CBP @ 7797'. CIRC WELL W/ 40 BBLS 2% KCL. RD DRL EQUIP. P/U LD EXESS TBG. PU 4 1/16 TBG HNGR & LAND TBG W/ KB 16.00 4 1/16 TBG HNGR .83 234 JTS L-80 TBG 7398.88 SLIDE OPEN BITSUB 3.13 EOT @ 7418.84 NDBOP, NU WH. DROP BALL. PUMP BIT OPEN W/ 1600#. OPEN WELL T/ PIT. TURN WELL OVER T/ FBC. SICP 550#, FTP 25# ON 64/64 CHOKE. RACK OUT EQUIP. SDFN.
1/8/2009	SUPERVISOR: WENDALL MYRICK						MD:
	7:00 -			33	A		7 AM FLBK REPORT: CP 1350#, TP 150#, OPEN/64" CK, 75 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 2445 BBLS LEFT TO RECOVER: 8822
1/9/2009	SUPERVISOR: WENDALL MYRICK						MD:
	7:00 -			33	A		7 AM FLBK REPORT: CP 1775#, TP 875#, 30/64" CK, 40 BWPH, TRACE SAND, LIGHT GAS TTL BBLS RECOVERED: 3705 BBLS LEFT TO RECOVER: 7562
	11:00 -		PROD				WELL TURNED TO SALES @ 1100 HR ON 1/09/2009 - FTP 1222#, CP 1222#, CK 20/64", 1100 MCFD, 1080 BWPD
1/10/2009	SUPERVISOR: WENDALL MYRICK						MD:
	7:00 -			33			7 AM FLBK REPORT: CP 1925#, TP 1200#, 20/64" CK, 25 BWPH, trace SAND, 1200 GAS TTL BBLS RECOVERED: 4434 BBLS LEFT TO RECOVER: 6833
1/11/2009	SUPERVISOR: WENDALL MYRICK						MD:
	7:00 -			33	A		7 AM FLBK REPORT: CP 1875#, TP 1250#, 20/64" CK, 18 BWPH, TRACE SAND, 1400 GAS TTL BBLS RECOVERED: 4912 BBLS LEFT TO RECOVER: 6355

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☑ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR ☑ OTHER RECOMPLETION

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304739006

3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2146'FNL, 879'FWL LOT 2
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 19 10S 21E

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 6/22/2008

15. DATE T.D. REACHED: 8/5/2008

16. DATE COMPLETED: 1/9/2009 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5192'GL

18. TOTAL DEPTH: MD 9,680 TVD

19. PLUG BACK T.D.: MD 9,619 TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
N/A

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,060		550			
7 7/8"	4 1/2 I-80	11.6#		9,680		2240			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7,419							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	5,516	7,384		
(B) MESAVERDE	7,468	7,756		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
5,516 7,384	0.36	289	Open ☑ Squeezed ☐
7,468 7,756	0.36	84	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5516'-7384'	PMP 6992 BBLS SLICK H2O & 270,510# 30/50 OTTOWA SD
7468'-7756'	PMP 4275 BBLS SLICK H2O & 169,399# 30/50 OTTOWA SD

29. ENCLOSED ATTACHMENTS:
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PROD

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FEB 09 2009
DIV. OF OIL, GAS & MINING

(5/2000) (CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
1/9/2009	1/23/2009	24		0	2,232	240	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
18/64	766	1,402					0	2,232	240	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
1/9/2009	1/23/2009	24		0	2,232	240	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
18/64	766	1,402					0	2,232	240	PROD

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,113				
MAHOGANY	1,831				
WASATCH	4,415	7,013			
MESAVERDE	7,456	9,570			

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE DATE 2/6/2009

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 1021-19E

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047390060000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6524

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 2146 FNL 0879 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 19 Township: 10.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 2/3/2016	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: WORKOVER

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A WORKOVER/WELLBORE CLEANOUT HAS BEEN COMPLETED ON THE NBU 1021-19E WELL. PLEASE SEE THE ATTACHED OPERATIONS SUMMARY REPORT FOR DETAILS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 09, 2016

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kristina Geno	720 929-6824	Regulatory Analyst
SIGNATURE N/A		**DATE** 2/8/2016

RECEIVED: Feb. 08, 2016

US ROCKIES REGION

Operation Summary Report

Well: NBU 1021-19E	Spud Conductor: 6/22/2008	Spud date: 6/23/2008
Project: UTAH-UINTAH	Site: NBU 1021-19E	Rig name no.: GWS 1/1
Event: WELL WORK EXPENSE	Start date: 1/26/2016	End date: 2/3/2016
Active datum: RKB @5,208.00usft (above Mean Sea Level)	UWI: 0/10/S/21/E/19/0/SWNW/6/PM/N/2,146.00/E/0/0/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
1/26/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM.
	7:00 - 11:00	4.00	MAINT	30	H	P		RD RIG & ROAD RIG F/ STATE 1021-32H. MIRU RIG & SPOT RIG EQUIP.
	11:00 - 17:00	6.00	MAINT	31	I	P		FWP = 40 PSI. BLW WELL DWN. ND WH. NU BOP. RU RIG FLOOR & TBG EQUIP. UNLAND TBG & LD 4 1/16 FMC TBG HNGR. PU RIH W/ 36 JTS 2 3/8 P-110 TBG & TAG @ 8895'. XO POOH LD 36 JTS. RU PIPE WRANGLE & RACKS. SWIFN.
1/27/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM.
	7:00 - 13:30	6.50	MAINT	45	A	P		SICP = 375 PSI. BLW WELL DWN. PUMP 20 BBLS DWN TBG. MIRU SCAN TECH. POOH SCAN TOTAL OF 246 JTS 2 3/8 L-80 TBG. FOUND 83 YB, 54 BB, 10 DBB & 99 RB. PITTING ON PIN ENDS 11,12,33,75,79,83-85,87-95,101-107,111-114, 116,126,129,135,220. LIGHT ID SCALE ON JT 215, HEAVY OD SCALE JTS 243-246. 24 PERF HOLES IN JT 246. RDMO SCAN TECH.
	13:30 - 17:00	3.50	MAINT					PU 3 7/8 MILL, POBS, 1.875 XN. RIH W/ 138 JTS 2 3/8 L-80 YB, 6' P-110 PUP JT & 20 NEW 2 3/8 P-110 TBG. EOT @ 5000'. SWIFN. WINTERIZE WH & RIG EQUIP.
1/28/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM.
	7:00 - 10:00	3.00	MAINT	31	I	P		SICP = 350 PSI. BLW WELL DWN. PUMP 20 BBLS DWN TBG. CONT RIH F/ 5000'. TAG SCALE W/ 257 JTS @ 8135'.
	10:00 - 17:30	7.50	MAINT	44	D	P		RU DRL EQUIP & WTF FU. BRK CONV CIRC 1hr 45 min T/ GET RETURNS. BEG MILLING F/ 8135' T/ 8389', FELL FREE. CIRC WELL CLEAN. STD BK DRL EQUIP. POOH LD 15 JTS. REMOVE DART VALVE. SWIFWE. WINTERIZE WH & RIG EQUIP.
2/1/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM.
	7:00 - 9:00	2.00	MAINT	31	I	P		SICP = 350 PSI. BLW WELL DWN. WAIT FOR WATER FOR 30 MIN, SNOWY ROADS. PUMP 20 DWN TBG. CONT RIH TAG SCALE @ 8833'.
	9:00 - 14:30	5.50	MAINT	44	D	P		RU DRL EQUIP. BRK CONV CIRC W/ FU. 1hr 30 min T/ GET RETURNS. MILL DWN T/ 8960'. STOP MAKING HOLE. (OLD PUMP OFF BIT SUB) CIRC WELL CLEAN W/ FU. STD BCK DRL EQUIP.

RECEIVED: Feb. 08, 2016

US ROCKIES REGION

Operation Summary Report

Well: NBU 1021-19E	Spud Conductor: 6/22/2008	Spud date: 6/23/2008	
Project: UTAH-UINTAH	Site: NBU 1021-19E		Rig name no.: GWS 1/1
Event: WELL WORK EXPENSE	Start date: 1/26/2016		End date: 2/3/2016
Active datum: RKB @5,208.00usft (above Mean Sea Level)	UWI: 0/10/S/21/E/19/0/SWNW/6/PM/N/2,146.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	14:00 - 17:30	3.50	MAINT	31	I	P		POOH STD BCK 283 JTS 2 3/8 TBG. LD XN, POBS & 3 7/8 MILL. FOUND POBS BALL IN THE MIDDLE PORT IN MILL. PU 3 7/8 WO SHOE, 2' WO EXT, XO. RIH W/ 120 JTS SWIFN. EOT @ 3798'. WINTERIZE WH & RIG EQUIP.
2/2/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM
	7:00 - 9:00	2.00	MAINT	31	I	P		SICP = 490 PSI. BLW WELL DWN. PUMP 20 BBLS DWN. CONT RIH W/ WO SHOE & TBG. TAG OLD POBS @ 8962'.
	9:00 - 15:00	6.00	MAINT	44	D	P		RU DRL EQUIP. BRK CONV CIRC W/ FU (1hr 30min). WO OLD POBS @ 8962' & MILL DWN T/ 9373' =111' PAST BTM PERF @ 9262'. KICK IN N2 UNIT W/ FOAM UNIT & CIRC WELL CLEAN. RD DRL EQUIP.
	15:00 - 17:30	2.50	MAINT	31	I	P		POOH LD 50 JTS EXESS JTS 2 3/8 P-110 TBG. STD BCK 100 JTS. EOT @ 4620'. SWIFN. WINTERIZE WH & RIG EQUIP.
2/3/2016	6:45 - 7:00	0.25	MAINT	48		P		HSM
	7:00 - 9:00	2.00	MAINT	31	I	P		SICP = 598 PSI. BLW WELL DWN. PUMP 20 BBLS DWN TBG. FINISH POOH W/ TBG & LD WO SHOE W/ 2' EXT. FOUND OLD POBS INSIDE WO SHOE.
	9:00 - 13:00	4.00	MAINT	31	I	P		PU 1.875 XN/NC. RIH W/ 246 JTS 2 3/8 TBG. RU BROACH EQUIP. BROACH TBG. POOH W/ BROACH. RD BROACH EQUIP. PU 4 1/16 TBG HNG. LAND TBG W/ 4 1/16 TBG HNGR, 110 JTS 2 3/8 P-110, 6' P-110 PUP, 136 JTS 2 3/8 L-80 W/ 1.875 XN/NC. EOT @ 7802'. LOAD LEFT T/ RECOVER = 100 BBLS.
	13:00 - 18:00	5.00	MAINT	30	H			RD TBG EQUIP & RIG FLOOR. ND BOP, NU WH. SWI FOR PSI BUILD UP. RD RIG & RACK OUT RIG EQUIP. ROAD RIG T/ MS 3-34 SPOT RIG. SDFN.